



03/04/08



Technical Report for

KLEINFELDER

Falcon Refinery Superfund Site/Ingleside, TX

Accutest Job Number: T19964

Sampling Date: 12/04/07

Report to:

KLEINFELDER

shalasz@kleinfelder.com

ATTN: Stephen Halasz

Total number of pages in report: **171**



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Ron Martino
Laboratory Manager

Client Service contact: Sylvia Garza 713-271-4700

This report shall not be reproduced, except in its entirety, without the written approval of Accutest Laboratories.
Test results relate only to samples analyzed.



Table of Contents

-1-

Section 1: Sample Summary	4
Section 2: Case Narrative/Conformance Summary	6
Section 3: Sample Results	11
3.1: T19964-1: FR-099	12
3.2: T19964-2: FR-100	19
3.3: T19964-3: FR-101	26
3.4: T19964-4: FR-102	33
3.5: T19964-5: FR-103	40
3.6: T19964-6: FR-104	47
3.7: T19964-7: FR-105	55
3.8: T19964-8: FR-106	62
3.9: T19964-9: FR-107	69
3.10: T19964-10: FR-108	77
3.11: T19964-11: TRIP BLANK	85
3.12: T19964-12: TRIP BLANK	87
Section 4: Misc. Forms	89
4.1: Chain of Custody	90
4.2: LRC Form	93
Section 5: GC/MS Volatiles - QC Data Summaries	97
5.1: Method Blank Summary	98
5.2: Blank Spike Summary	103
5.3: Matrix Spike/Matrix Spike Duplicate Summary	109
Section 6: GC/MS Semi-volatiles - QC Data Summaries	115
6.1: Method Blank Summary	116
6.2: Blank Spike Summary	125
6.3: Matrix Spike/Matrix Spike Duplicate Summary	133
Section 7: Metals Analysis - QC Data Summaries	142
7.1: Prep QC MP7001: Al,Sb,As,Ba,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Ni,K,Se,Ag,Na, Tl,V,Zn	143
7.2: Prep QC MP7020: Hg	148
7.3: Prep QC MP7028: Al,Sb,As,Ba,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Ni,K,Se,Ag,Na, Tl,V,Zn	152
7.4: Prep QC MP7036: Hg	157
Section 8: General Chemistry - QC Data Summaries	161
8.1: Method Blank and Spike Results Summary	162
8.2: Duplicate Results Summary	163
8.3: Matrix Spike Results Summary	164
Section 9: Misc. Forms (Accutest Laboratories Southeast, Inc.)	165
9.1: Chain of Custody	166
Section 10: General Chemistry - QC Data (Accutest Laboratories Southeast, Inc.)	168
10.1: Method Blank and Spike Results Summary	169
10.2: Duplicate Results Summary	170

Sections:	1
10.3: Matrix Spike Results Summary	171
2	2
3	3
4	4
5	5
6	6
7	7
8	8
9	9
10	10

Table of Contents

-2-

10.3: Matrix Spike Results Summary 171



Accutest Laboratories

Sample Summary

KLEINFELDER

Job No: T19964

Falcon Refinery Superfund Site/Ingleside, TX

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
T19964-1	12/04/07	09:30 PS	12/05/07	SO	Soil	FR-099
T19964-2	12/04/07	09:35 PS	12/05/07	SO	Soil	FR-100
T19964-3	12/04/07	09:40 PS	12/05/07	SO	Soil	FR-101
T19964-4	12/04/07	11:05 PS	12/05/07	SO	Soil	FR-102
T19964-4D	12/04/07	11:05 PS	12/05/07	SO	Soil Dup/MSD	FR-102 MSD
T19964-4S	12/04/07	11:05 PS	12/05/07	SO	Soil Matrix Spike	FR-102 MS
T19964-5	12/04/07	11:15 PS	12/05/07	SO	Soil	FR-103
T19964-6	12/04/07	11:30 PS	12/05/07	AQ	Water	FR-104
T19964-7	12/04/07	14:50 PS	12/05/07	SO	Soil	FR-105
T19964-8	12/04/07	14:55 PS	12/05/07	SO	Soil	FR-106
T19964-9	12/04/07	15:12 PS	12/05/07	AQ	Water	FR-107
T19964-10	12/04/07	16:00 PS	12/05/07	AQ	Water	FR-108
T19964-11	12/04/07	00:00 PS	12/05/07	AQ	Trip Blank Soil	TRIP BLANK

Soil samples reported on a dry weight basis unless otherwise indicated on result page.



Accutest Laboratories

Sample Summary
(continued)

KLEINFELDER

Job No: T19964

Falcon Refinery Superfund Site/Ingleside, TX

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
T19964-12	12/04/07	00:00 PS	12/05/07	AQ	Trip Blank Water	TRIP BLANK

Soil samples reported on a dry weight basis unless otherwise indicated on result page.



SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: KLEINFELDER

Job No T19964

Site: Falcon Refinery Superfund Site/Ingleside, TX

Report Date 12/28/2007 2:58:34 PM

10 Samples and 2 Trip Blanks were collected on 12/04/2007 and were received at Accutest on 12/05/2007 properly preserved, at 3 Deg. C and intact. These Samples received an Accutest job number of T19964. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Volatiles by GCMS By Method SW846 8260B

Matrix AQ

Batch ID: VF2797

- All samples were analyzed within the recommended method holding time.
- Sample(s) T19944-14MS, T19944-14MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- VF2797-MB for Methylene chloride: Suspected laboratory contaminant.

Matrix SO

Batch ID: VM47

- All samples were analyzed within the recommended method holding time.
- Sample(s) T19964-4MS, T19964-4MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- Matrix Spike Recovery(s) for Vinyl Acetate are outside control limits. Probable cause due to matrix interference.
- Matrix Spike Duplicate Recovery(s) for Vinyl Acetate are outside control limits. Probable cause due to matrix interference.

Extractables by GCMS By Method SW846 8270C

Matrix AQ	Batch ID: OP8660
------------------	-------------------------

- All samples were extracted within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) T19967-2MS, T19967-2MSD were used as the QC samples indicated.
- Blank Spike Recovery(s) for Hexachlorocyclopentadiene are outside control limits biased high.
- Matrix Spike Recovery(s) for Naphthalene, 3,3'-Dichlorobenzidine, Benzoic Acid, bis(2-Ethylhexyl)phthalate, Butyl benzyl phthalate, Di-n-octyl phthalate, Hexachloroethane are outside control limits. Outside control limits due to high level in sample relative to spike amount.
- Matrix Spike Duplicate Recovery(s) for 3,3'-Dichlorobenzidine, 4-Nitrophenol, Benzoic Acid, bis(2-Ethylhexyl)phthalate, Hexachloroethane, Pentachlorophenol are outside control limits. Probable cause due to matrix interference.
- RPD(s) for MSD for 4,6-Dinitro-o-cresol, Benzo(g,h,i)perylene, Di-n-octyl phthalate, Dibenz(a,h)anthracene, Hexachlorocyclopentadiene, Indeno(1,2,3-cd)pyrene are outside control limits for sample OP8660-MSD. Probable cause due to sample homogeneity.

Matrix SO	Batch ID: OP8652
------------------	-------------------------

- All samples were extracted within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- Sample(s) T19944-1MS, T19944-1MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- RPD(s) for MSD for 1,3-Dichlorobenzene are outside control limits for sample OP8652-MSD. Probable cause due to sample homogeneity.

Matrix SO	Batch ID: OP8657
------------------	-------------------------

- All samples were extracted within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) T19964-4MS, T19964-4MSD were used as the QC samples indicated.
- Blank Spike Recovery(s) for 3,3'-Dichlorobenzidine, 4-Nitroaniline are outside control limits biased high.
- Matrix Spike Recovery(s) for bis(2-Ethylhexyl)phthalate, Indeno(1,2,3-cd)pyrene are outside control limits. Probable cause due to matrix interference.
- Matrix Spike Duplicate Recovery(s) for Benzo(g,h,i)perylene, bis(2-Ethylhexyl)phthalate, Indeno(1,2,3-cd)pyrene are outside control limits. Probable cause due to matrix interference.

Extractables by GCMS By Method SW846 8270C BY SIM

Matrix AQ	Batch ID: OP8671
------------------	-------------------------

- All samples were extracted within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.

Metals By Method SW846 6010B

Matrix	AQ	Batch ID:	MP 7028
■ All samples were digested within the recommended method holding time.			
■	All samples were analyzed within the recommended method holding time.		
■ All method blanks for this batch meet method specific criteria.			
■	Sample(s) T19964-6DUP, T19964-6MS, T19964-6MSD, T19964-6SDL, T19964-6DUP were used as the QC samples for metals.		
■	Matrix Spike Recovery(s) for Calcium are outside control limits. Spike recovery indicates possible matrix interference.		
■	Matrix Spike Duplicate Recovery(s) for Potassium, Selenium are outside control limits. Probable cause due to matrix interference.		
■	Matrix Spike Recovery(s) for Magnesium, Sodium are outside control limits. Spike amount low relative to the sample amount. Refer to lab control or spike blank for recovery information.		
■	RPD(s) for Duplicate for Antimony, Lead, Zinc are outside control limits for sample MP7028-D1. RPD acceptable due to low duplicate and sample concentrations.		
■	RPD(s) for Serial Dilution for Antimony, Arsenic, Iron, Lead, Thallium, Vanadium, Zinc, Potassium are outside control limits for sample MP7028-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).		
■	MP7028-SD1 for Potassium: Serial dilution indicates possible matrix interference.		

Matrix	SO	Batch ID:	MP 7001
■ All samples were digested within the recommended method holding time.			
■	All samples were analyzed within the recommended method holding time.		
■ All method blanks for this batch meet method specific criteria.			
■	Sample(s) T19964-4DUP, T19964-4MS, T19964-4MSD, T19964-4SDL, T19964-4DUP were used as the QC samples for metals.		
■	Matrix Spike Recovery(s) for Aluminum, Antimony, Zinc are outside control limits. Spike recovery indicates possible matrix interference.		
■	Matrix Spike Duplicate Recovery(s) for Antimony are outside control limits. Probable cause due to matrix interference.		
■	RPD(s) for Duplicate for Sodium are outside control limits for sample MP7001-D1. RPD acceptable due to low duplicate and sample concentrations.		
■	RPD(s) for Serial Dilution for Arsenic, Beryllium, Chromium, Cobalt, Nickel, Sodium, Potassium are outside control limits for sample MP7001-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).		
■	MP7001-SD1 for Potassium: Serial dilution indicates possible matrix interference.		

Metals By Method SW846 7470A

Matrix	AQ	Batch ID:	MP 7036
■ All samples were digested within the recommended method holding time.			
■	All samples were analyzed within the recommended method holding time.		
■ All method blanks for this batch meet method specific criteria.			
■	Sample(s) T20018-10MS, T20018-10MSD, T20018-10DUP were used as the QC samples for metals.		
■	RPD(s) for Duplicate for Mercury are outside control limits for sample MP7036-D1. RPD acceptable due to low duplicate and sample concentrations.		

Metals By Method SW846 7471A

Matrix	SO	Batch ID:	MP 7020
■ All samples were digested within the recommended method holding time.			
■	All samples were analyzed within the recommended method holding time.		
■ All method blanks for this batch meet method specific criteria.			
■	Sample(s) T19964-4DUP, T19964-4MS, T19964-4MSD were used as the QC samples for metals.		

Wet Chemistry By Method EPA 160.3 M**Matrix** SO**Batch ID:** GN12808

- Sample(s) T19964-4DUP were used as the QC samples for Solids, Percent.

Wet Chemistry By Method SW846 3060A/7196A**Matrix** SO**Batch ID:** F:GN28761

- Chromium, Hexavalent: Analysis performed at Accutest Laboratories, Orlando, FL.

Wet Chemistry By Method SW846 7196A**Matrix** AQ**Batch ID:** GN12776

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) T19964-10DUP, T19964-10MS were used as the QC samples for Chromium, Hexavalent.

Accutest Laboratories Gulf Coast (ALGC) certifies that this report meets the project requirements for analytical data produced for the samples as received at ALGC and as stated on the COC. ALGC certifies that the data meets the Data Quality Objectives for precision, accuracy and completeness as specified in the ALGC Quality Manual except as noted above. This report is to be used in its entirety. ALGC is not responsible for any assumptions of data quality if partial data packages are used

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: Accutest Laboratories Gulf Coast, Inc.

Job No: T19964

Site: KLETXAU: Falcon Refinery Superfund Site/Ingleside, TX

Report Date 12/28/2007 4:13:37

7 Samples were collected on 12/04/2007 and were received at Accutest on 12/05/2007 properly preserved and intact. These Samples received an Accutest job number of T19964. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Wet Chemistry By Method SW846 3060A/7196A

Matrix: SO

Batch ID: GN28761

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) T19944-8DUP, T19944-8MS were used as the QC samples for Chromium, Hexavalent.

Matrix Spike Recovery(s) for Chromium, Hexavalent are outside control limits. Spike recovery indicates possible matrix interference and/or sample nonhomogeneity.

Accutest Laboratories Southeast (ALSE) certifies that this report meets the project requirements for analytical data produced for the samples as received at ALSE and as stated on the COC. ALSE certifies that the data meets the Data Quality Objectives for precision, accuracy and completeness as specified in the ALSE Quality Manual except as noted above. This report is to be used in its entirety. ALSE is not responsible for any assumptions of data quality if partial data packages are used

Narrative prepared by:

Date: December 28

2007

Svetlana Izosimova, QAO (signature on file)



IT'S ALL IN THE CHEMISTRY

Section 3

3

Sample Results

Report of Analysis

Report of Analysis

Page 1 of 2

1.1

3

Client Sample ID: FR-099
Lab Sample ID: T19964-1
Matrix: SO - Soil
Method: SW846 8260B
Project: Falcon Refinery Superfund Site/Ingleside, TX

Date Sampled: 12/04/07
Date Received: 12/05/07
Percent Solids: 79.6

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M0001119.D	1	12/10/07	LJ	n/a	n/a	VM47
Run #2							

	Initial Weight	Final Volume
Run #1	5.20 g	5.0 ml
Run #2		

SW-846 8260B

CAS No.	Compound	Result	MQL	SDL	Units	Q
67-64-1	Acetone	0.0087 U	0.060	0.0087	mg/kg	
71-43-2	Benzene	0.0017 U	0.0060	0.0017	mg/kg	
108-86-1	Bromobenzene	0.0015 U	0.0060	0.0015	mg/kg	
74-97-5	Bromochloromethane	0.0017 U	0.0060	0.0017	mg/kg	
75-27-4	Bromodichloromethane	0.0017 U	0.0060	0.0017	mg/kg	
75-25-2	Bromoform	0.0015 U	0.0060	0.0015	mg/kg	
71-36-3	n-Butyl Alcohol	0.060 U	0.060	0.060	mg/kg	
104-51-8	n-Butylbenzene	0.0012 U	0.0060	0.0012	mg/kg	
98-06-6	tert-Butylbenzene	0.0012 U	0.0060	0.0012	mg/kg	
108-90-7	Chlorobenzene	0.0017 U	0.0060	0.0017	mg/kg	
75-00-3	Chloroethane	0.0017 U	0.0060	0.0017	mg/kg	
67-66-3	Chloroform	0.0015 U	0.0060	0.0015	mg/kg	
95-49-8	o-Chlorotoluene	0.0014 U	0.0060	0.0014	mg/kg	
106-43-4	p-Chlorotoluene	0.0014 U	0.0060	0.0014	mg/kg	
75-15-0	Carbon disulfide	0.0015 U	0.012	0.0015	mg/kg	
56-23-5	Carbon tetrachloride	0.0013 U	0.0060	0.0013	mg/kg	
110-82-7	Cyclohexane	0.0014 U	0.0060	0.0014	mg/kg	
75-34-3	1,1-Dichloroethane	0.0016 U	0.0060	0.0016	mg/kg	
75-35-4	1,1-Dichloroethylene	0.0015 U	0.0060	0.0015	mg/kg	
563-58-6	1,1-Dichloropropene	0.0014 U	0.0060	0.0014	mg/kg	
96-12-8	1,2-Dibromo-3-chloropropane	0.0017 U	0.0060	0.0017	mg/kg	
106-93-4	1,2-Dibromoethane	0.0017 U	0.0060	0.0017	mg/kg	
107-06-2	1,2-Dichloroethane	0.0017 U	0.0060	0.0017	mg/kg	
78-87-5	1,2-Dichloropropane	0.0018 U	0.0060	0.0018	mg/kg	
142-28-9	1,3-Dichloropropane	0.0017 U	0.0060	0.0017	mg/kg	
123-91-1	1,4-Dioxane	0.029 U	0.30	0.029	mg/kg	
594-20-7	2,2-Dichloropropane	0.0013 U	0.0060	0.0013	mg/kg	
124-48-1	Dibromochloromethane	0.0017 U	0.0060	0.0017	mg/kg	
75-71-8	Dichlorodifluoromethane	0.0013 U	0.0060	0.0013	mg/kg	
156-59-2	cis-1,2-Dichloroethylene	0.0017 U	0.0060	0.0017	mg/kg	
10061-01-5	cis-1,3-Dichloropropene	0.0015 U	0.0060	0.0015	mg/kg	
156-60-5	trans-1,2-Dichloroethylene	0.0016 U	0.0060	0.0016	mg/kg	

U = Not detected SDL - Sample Detection Limit

J = Indicates an estimated value

MQL = Method Quantitation Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 2 of 2

1.1

3

Client Sample ID:	FR-099	Date Sampled:	12/04/07
Lab Sample ID:	T19964-1	Date Received:	12/05/07
Matrix:	SO - Soil	Percent Solids:	79.6
Method:	SW846 8260B	Falcon Refinery Superfund Site/Ingleside, TX	
Project:			

SW-846 8260B

CAS No.	Compound	Result	MQL	SDL	Units	Q
10061-02-6	trans-1,3-Dichloropropene	0.0016 U	0.0060	0.0016	mg/kg	
100-41-4	Ethylbenzene	0.0015 U	0.0060	0.0015	mg/kg	
60-29-7	Ethyl Ether	0.0060 U	0.0060	0.0060	mg/kg	
110-54-3	Hexane	0.0013 U	0.0060	0.0013	mg/kg	
591-78-6	2-Hexanone	0.0083 U	0.060	0.0083	mg/kg	
87-68-3	Hexachlorobutadiene	0.0014 U	0.0060	0.0014	mg/kg	
98-82-8	Isopropylbenzene	0.0014 U	0.0060	0.0014	mg/kg	
99-87-6	p-Isopropyltoluene	0.0014 U	0.0060	0.0014	mg/kg	
108-10-1	4-Methyl-2-pentanone	0.0084 U	0.060	0.0084	mg/kg	
74-83-9	Methyl bromide	0.0018 U	0.0060	0.0018	mg/kg	
74-87-3	Methyl chloride	0.0018 U	0.0060	0.0018	mg/kg	
74-95-3	Methylene bromide	0.0024 U	0.0060	0.0024	mg/kg	
75-09-2	Methylene chloride	0.0030 U	0.012	0.0030	mg/kg	
78-93-3	Methyl ethyl ketone	0.0081 U	0.060	0.0081	mg/kg	
103-65-1	n-Propylbenzene	0.0013 U	0.0060	0.0013	mg/kg	
100-42-5	Styrene	0.0015 U	0.0060	0.0015	mg/kg	
630-20-6	1,1,1,2-Tetrachloroethane	0.0017 U	0.0060	0.0017	mg/kg	
71-55-6	1,1,1-Trichloroethane	0.0014 U	0.0060	0.0014	mg/kg	
79-34-5	1,1,2,2-Tetrachloroethane	0.0017 U	0.0060	0.0017	mg/kg	
79-00-5	1,1,2-Trichloroethane	0.0017 U	0.0060	0.0017	mg/kg	
87-61-6	1,2,3-Trichlorobenzene	0.0014 U	0.0060	0.0014	mg/kg	
96-18-4	1,2,3-Trichloropropane	0.0017 U	0.0060	0.0017	mg/kg	
120-82-1	1,2,4-Trichlorobenzene	0.0012 U	0.0060	0.0012	mg/kg	
95-63-6	1,2,4-Trimethylbenzene	0.0016	0.0060	0.0013	mg/kg	J
108-67-8	1,3,5-Trimethylbenzene	0.0013 U	0.0060	0.0013	mg/kg	
127-18-4	Tetrachloroethylene	0.0016 U	0.0060	0.0016	mg/kg	
108-88-3	Toluene	0.0015 U	0.0060	0.0015	mg/kg	
79-01-6	Trichloroethylene	0.0015 U	0.0060	0.0015	mg/kg	
75-69-4	Trichlorofluoromethane	0.0012 U	0.0060	0.0012	mg/kg	
75-01-4	Vinyl chloride	0.0016 U	0.0060	0.0016	mg/kg	
108-05-4	Vinyl Acetate	0.0092 U	0.030	0.0092	mg/kg	
1330-20-7	Xylene (total)	0.0046 U	0.018	0.0046	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	109%		68-127%
2037-26-5	Toluene-D8	131%		76-139%
460-00-4	4-Bromofluorobenzene	157%		68-167%
17060-07-0	1,2-Dichloroethane-D4	99%		56-121%

U = Not detected SDL - Sample Detection Limit
 MQL = Method Quantitation Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 3

1.1

3

Client Sample ID:	FR-099	Date Sampled:	12/04/07
Lab Sample ID:	T19964-1	Date Received:	12/05/07
Matrix:	SO - Soil	Percent Solids:	79.6
Method:	SW846 8270C SW846 3550B		
Project:	Falcon Refinery Superfund Site/Ingleside, TX		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	A24850.D	1	12/13/07	SC	12/07/07	OP8652	EA1542

Run #1	Initial Weight	Final Volume
Run #1	30.4 g	1.0 ml
Run #2		

SW-846 8270C

CAS No.	Compound	Result	MQL	SDL	Units	Q
108-98-5	Benzene thiol	0.21 U	0.21	0.21	mg/kg	
65-85-0	Benzoic acid	0.052 U	1.0	0.052	mg/kg	
95-57-8	2-Chlorophenol	0.064 U	0.21	0.064	mg/kg	
59-50-7	4-Chloro-3-methyl phenol	0.047 U	0.21	0.047	mg/kg	
120-83-2	2,4-Dichlorophenol	0.070 U	0.21	0.070	mg/kg	
105-67-9	2,4-Dimethylphenol	0.066 U	0.21	0.066	mg/kg	
51-28-5	2,4-Dinitrophenol	0.070 U	1.0	0.070	mg/kg	
534-52-1	4,6-Dinitro-o-cresol	0.13 U	0.41	0.13	mg/kg	
95-48-7	2-Methylphenol	0.045 U	0.21	0.045	mg/kg	
	3&4-Methylphenol	0.068 U	0.21	0.068	mg/kg	
100-02-7	4-Nitrophenol	0.081 U	0.21	0.081	mg/kg	
87-86-5	Pentachlorophenol	0.055 U	1.0	0.055	mg/kg	
108-95-2	Phenol	0.083 U	0.21	0.083	mg/kg	
95-95-4	2,4,5-Trichlorophenol	0.058 U	0.21	0.058	mg/kg	
88-06-2	2,4,6-Trichlorophenol	0.055 U	0.21	0.055	mg/kg	
83-32-9	Acenaphthene	0.050 U	0.21	0.050	mg/kg	
208-96-8	Acenaphthylene	0.056 U	0.21	0.056	mg/kg	
120-12-7	Anthracene	0.067 U	0.21	0.067	mg/kg	
56-55-3	Benzo(a)anthracene	0.077 U	0.21	0.077	mg/kg	
50-32-8	Benzo(a)pyrene	0.067 U	0.21	0.067	mg/kg	
205-99-2	Benzo(b)fluoranthene	0.087 U	0.21	0.087	mg/kg	
191-24-2	Benzo(g,h,i)perylene	0.11 U	0.21	0.11	mg/kg	
207-08-9	Benzo(k)fluoranthene	0.095 U	0.21	0.095	mg/kg	
101-55-3	4-Bromophenyl phenyl ether	0.079 U	0.21	0.079	mg/kg	
85-68-7	Butyl benzyl phthalate	0.099 U	0.21	0.099	mg/kg	
100-51-6	Benzyl Alcohol	0.073 U	0.21	0.073	mg/kg	
91-58-7	2-Chloronaphthalene	0.057 U	0.21	0.057	mg/kg	
106-47-8	4-Chloroaniline	0.058 U	0.21	0.058	mg/kg	
86-74-8	Carbazole	0.089 U	0.21	0.089	mg/kg	
218-01-9	Chrysene	0.068 U	0.21	0.068	mg/kg	
111-91-1	bis(2-Chloroethoxy)methane	0.077 U	0.21	0.077	mg/kg	
111-44-4	bis(2-Chloroethyl)ether	0.044 U	0.21	0.044	mg/kg	

U = Not detected SDL - Sample Detection Limit

J = Indicates an estimated value

MQL = Method Quantitation Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 2 of 3

1.1

3

Client Sample ID:	FR-099	Date Sampled:	12/04/07
Lab Sample ID:	T19964-1	Date Received:	12/05/07
Matrix:	SO - Soil	Percent Solids:	79.6
Method:	SW846 8270C SW846 3550B		
Project:	Falcon Refinery Superfund Site/Ingleside, TX		

SW-846 8270C

CAS No.	Compound	Result	MQL	SDL	Units	Q
7005-72-3	4-Chlorophenyl phenyl ether	0.063 U	0.21	0.063	mg/kg	
95-50-1	1,2-Dichlorobenzene	0.070 U	0.21	0.070	mg/kg	
541-73-1	1,3-Dichlorobenzene	0.064 U	0.21	0.064	mg/kg	
106-46-7	1,4-Dichlorobenzene	0.057 U	0.21	0.057	mg/kg	
121-14-2	2,4-Dinitrotoluene	0.090 U	0.21	0.090	mg/kg	
606-20-2	2,6-Dinitrotoluene	0.053 U	0.21	0.053	mg/kg	
91-94-1	3,3'-Dichlorobenzidine	0.084 U	0.41	0.084	mg/kg	
57-97-6	7,12-Dimethylbenz(a)anthracene	0.21 U	0.21	0.21	mg/kg	
226-36-8	Dibenz(a,h)acridine	0.21 U	0.21	0.21	mg/kg	
53-70-3	Dibenzo(a,h)anthracene	0.072 U	0.21	0.072	mg/kg	
132-64-9	Dibenzofuran	0.057 U	0.21	0.057	mg/kg	
122-39-4	Diphenylamine	0.090 U	0.21	0.090	mg/kg	
84-74-2	Di-n-butyl phthalate	0.10 U	0.21	0.10	mg/kg	
117-84-0	Di-n-octyl phthalate	0.19 U	0.21	0.19	mg/kg	
84-66-2	Diethyl phthalate	0.057 U	0.21	0.057	mg/kg	
131-11-3	Dimethyl phthalate	0.051 U	0.21	0.051	mg/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	0.10 U	0.21	0.10	mg/kg	
206-44-0	Fluoranthene	0.093 U	0.21	0.093	mg/kg	
86-73-7	Fluorene	0.063 U	0.21	0.063	mg/kg	
118-74-1	Hexachlorobenzene	0.068 U	0.21	0.068	mg/kg	
87-68-3	Hexachlorobutadiene	0.063 U	0.21	0.063	mg/kg	
77-47-4	Hexachlorocyclopentadiene	0.075 U	0.21	0.075	mg/kg	
67-72-1	Hexachloroethane	0.061 U	0.21	0.061	mg/kg	
95-13-6	Indene	1.0 U	1.0	1.0	mg/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	0.080 U	0.21	0.080	mg/kg	
78-59-1	Isophorone	0.054 U	0.21	0.054	mg/kg	
90-12-0	1-Methylnaphthalene	0.049 U	0.21	0.049	mg/kg	
91-57-6	2-Methylnaphthalene	0.055 U	0.21	0.055	mg/kg	
	6-Methyl Chrysene	0.21 U	0.21	0.21	mg/kg	
88-74-4	2-Nitroaniline	0.054 U	0.21	0.054	mg/kg	
99-09-2	3-Nitroaniline	0.077 U	0.21	0.077	mg/kg	
100-01-6	4-Nitroaniline	0.11 U	0.21	0.11	mg/kg	
91-20-3	Naphthalene	0.050 U	0.21	0.050	mg/kg	
98-95-3	Nitrobenzene	0.058 U	0.21	0.058	mg/kg	
621-64-7	N-Nitroso-di-n-propylamine	0.083 U	0.21	0.083	mg/kg	
86-30-6	N-Nitrosodiphenylamine	0.090 U	0.21	0.090	mg/kg	
85-01-8	Phenanthrene	0.077 U	0.21	0.077	mg/kg	
129-00-0	Pyrene	0.10 U	0.21	0.10	mg/kg	
91-22-5	Quinoline	0.21 U	0.21	0.21	mg/kg	
120-82-1	1,2,4-Trichlorobenzene	0.054 U	0.21	0.054	mg/kg	

U = Not detected

SDL - Sample Detection Limit

MQL = Method Quantitation Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 3 of 3

1.1

3

Client Sample ID:	FR-099	Date Sampled:	12/04/07
Lab Sample ID:	T19964-1	Date Received:	12/05/07
Matrix:	SO - Soil	Percent Solids:	79.6
Method:	SW846 8270C SW846 3550B		
Project:	Falcon Refinery Superfund Site/Ingleside, TX		

SW-846 8270C

CAS No.	Compound	Result	MQL	SDL	Units	Q
931-17-9	1,3&1,4-Cyclohexanediol	0.21 U	0.21	0.21	mg/kg	
	1,2-Cyclohexanediol	0.21 U	0.21	0.21	mg/kg	
98-85-1	1-Phenylethanol	0.21 U	0.21	0.21	mg/kg	
CAS No. Surrogate Recoveries Run# 1 Run# 2 Limits						
367-12-4	2-Fluorophenol	56%			26-124%	
4165-62-2	Phenol-d5	60%			19-106%	
118-79-6	2,4,6-Tribromophenol	102%			18-129%	
4165-60-0	Nitrobenzene-d5	62%			18-104%	
321-60-8	2-Fluorobiphenyl	70%			21-114%	
1718-51-0	Terphenyl-d14	120%			24-149%	

U = Not detected SDL - Sample Detection Limit
 MQL = Method Quantitation Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 1

3.1

3

Client Sample ID:	FR-099	Date Sampled:	12/04/07
Lab Sample ID:	T19964-1	Date Received:	12/05/07
Matrix:	SO - Soil	Percent Solids:	79.6
Project:	Falcon Refinery Superfund Site/Ingleside, TX		

Metals Analysis

Analyte	Result	MQL	SDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Aluminum	14600	22	4.9	mg/kg	1	12/10/07	12/11/07	NS	SW846 6010B ¹
Antimony	0.30 U	1.1	0.30	mg/kg	1	12/10/07	12/11/07	NS	SW846 6010B ¹
Arsenic	1.7	1.1	0.22	mg/kg	1	12/10/07	12/11/07	NS	SW846 6010B ¹
Barium	63.7	22	0.067	mg/kg	1	12/10/07	12/11/07	NS	SW846 6010B ¹
Beryllium	0.44 B	0.56	0.022	mg/kg	1	12/10/07	12/11/07	NS	SW846 6010B ¹
Cadmium	0.11 U	0.56	0.11	mg/kg	1	12/10/07	12/11/07	NS	SW846 6010B ¹
Calcium	10300	560	1.9	mg/kg	1	12/10/07	12/11/07	NS	SW846 6010B ¹
Chromium	9.0	1.1	0.078	mg/kg	1	12/10/07	12/11/07	NS	SW846 6010B ¹
Cobalt	2.2 B	5.6	0.20	mg/kg	1	12/10/07	12/11/07	NS	SW846 6010B ¹
Copper	4.5	2.8	0.15	mg/kg	1	12/10/07	12/11/07	NS	SW846 6010B ¹
Iron	7720	11	2.5	mg/kg	1	12/10/07	12/12/07	NS	SW846 6010B ³
Lead	11.0	1.1	0.45	mg/kg	1	12/10/07	12/11/07	NS	SW846 6010B ¹
Magnesium	2940	560	1.3	mg/kg	1	12/10/07	12/11/07	NS	SW846 6010B ¹
Manganese	77.3	1.7	0.078	mg/kg	1	12/10/07	12/11/07	NS	SW846 6010B ¹
Mercury	0.019	0.018	0.000071	mg/kg	1	12/12/07	12/12/07	NS	SW846 7471A ²
Nickel	4.2 B	4.5	0.15	mg/kg	1	12/10/07	12/11/07	NS	SW846 6010B ¹
Potassium	3270	560	35	mg/kg	1	12/10/07	12/11/07	NS	SW846 6010B ¹
Selenium	0.27 U	1.1	0.27	mg/kg	1	12/10/07	12/11/07	NS	SW846 6010B ¹
Silver	0.089 U	1.1	0.089	mg/kg	1	12/10/07	12/11/07	NS	SW846 6010B ¹
Sodium	756	560	30	mg/kg	1	12/10/07	12/11/07	NS	SW846 6010B ¹
Thallium	0.56 U	2.2	0.56	mg/kg	1	12/10/07	12/11/07	NS	SW846 6010B ¹
Vanadium	16.6	5.6	0.13	mg/kg	1	12/10/07	12/11/07	NS	SW846 6010B ¹
Zinc	24.6	2.2	0.45	mg/kg	1	12/10/07	12/11/07	NS	SW846 6010B ¹

- (1) Instrument QC Batch: MA3269
- (2) Instrument QC Batch: MA3272
- (3) Instrument QC Batch: MA3273
- (4) Prep QC Batch: MP7001
- (5) Prep QC Batch: MP7020

MQL = Method Quantitation Limit
 SDL = Sample Detection Limit

U = Indicates a result < SDL
 B = Indicates a result >= SDL but < MQL

Report of Analysis

Page 1 of 1

3.1

3

Client Sample ID:	FR-099	Date Sampled:	12/04/07
Lab Sample ID:	T19964-1	Date Received:	12/05/07
Matrix:	SO - Soil	Percent Solids:	79.6
Project:	Falcon Refinery Superfund Site/Ingleside, TX		

General Chemistry

Analyte	Result	MQL	SDL	Units	DF	Analyzed	By	Method
Chromium, Hexavalent ^a	1.3 U	2.5	1.3	mg/kg	1	12/21/07	AFL	SW846 3060A/7196A
Solids, Percent	79.6			%	1	12/12/07	TW	EPA 160.3 M

(a) Analysis performed at Accutest Laboratories, Orlando, FL.

MQL = Method Quantitation Limit
 SDL = Sample Detection Limit

U = Indicates a result < SDL
 B = Indicates a result >= SDL but < MQL

Report of Analysis

Page 1 of 2

32

3

Client Sample ID: FR-100
Lab Sample ID: T19964-2
Matrix: SO - Soil
Method: SW846 8260B
Project: Falcon Refinery Superfund Site/Ingleside, TX

Date Sampled: 12/04/07
 Date Received: 12/05/07
 Percent Solids: 78.1

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M0001120.D	1	12/10/07	LJ	n/a	n/a	VM47
Run #2							

	Initial Weight	Final Volume
Run #1	5.23 g	5.0 ml
Run #2		

SW-846 8260B

CAS No.	Compound	Result	MQL	SDL	Units	Q
67-64-1	Acetone	0.0088 U	0.061	0.0088	mg/kg	
71-43-2	Benzene	0.0017 U	0.0061	0.0017	mg/kg	
108-86-1	Bromobenzene	0.0016 U	0.0061	0.0016	mg/kg	
74-97-5	Bromochloromethane	0.0018 U	0.0061	0.0018	mg/kg	
75-27-4	Bromodichloromethane	0.0017 U	0.0061	0.0017	mg/kg	
75-25-2	Bromoform	0.0015 U	0.0061	0.0015	mg/kg	
71-36-3	n-Butyl Alcohol	0.061 U	0.061	0.061	mg/kg	
104-51-8	n-Butylbenzene	0.0012 U	0.0061	0.0012	mg/kg	
98-06-6	tert-Butylbenzene	0.0012 U	0.0061	0.0012	mg/kg	
108-90-7	Chlorobenzene	0.0017 U	0.0061	0.0017	mg/kg	
75-00-3	Chloroethane	0.0017 U	0.0061	0.0017	mg/kg	
67-66-3	Chloroform	0.0015 U	0.0061	0.0015	mg/kg	
95-49-8	o-Chlorotoluene	0.0015 U	0.0061	0.0015	mg/kg	
106-43-4	p-Chlorotoluene	0.0014 U	0.0061	0.0014	mg/kg	
75-15-0	Carbon disulfide	0.0016 U	0.012	0.0016	mg/kg	
56-23-5	Carbon tetrachloride	0.0013 U	0.0061	0.0013	mg/kg	
110-82-7	Cyclohexane	0.0014 U	0.0061	0.0014	mg/kg	
75-34-3	1,1-Dichloroethane	0.0016 U	0.0061	0.0016	mg/kg	
75-35-4	1,1-Dichloroethylene	0.0015 U	0.0061	0.0015	mg/kg	
563-58-6	1,1-Dichloropropene	0.0015 U	0.0061	0.0015	mg/kg	
96-12-8	1,2-Dibromo-3-chloropropane	0.0017 U	0.0061	0.0017	mg/kg	
106-93-4	1,2-Dibromoethane	0.0017 U	0.0061	0.0017	mg/kg	
107-06-2	1,2-Dichloroethane	0.0017 U	0.0061	0.0017	mg/kg	
78-87-5	1,2-Dichloropropane	0.0018 U	0.0061	0.0018	mg/kg	
142-28-9	1,3-Dichloropropane	0.0018 U	0.0061	0.0018	mg/kg	
123-91-1	1,4-Dioxane	0.029 U	0.31	0.029	mg/kg	
594-20-7	2,2-Dichloropropane	0.0013 U	0.0061	0.0013	mg/kg	
124-48-1	Dibromochloromethane	0.0017 U	0.0061	0.0017	mg/kg	
75-71-8	Dichlorodifluoromethane	0.0013 U	0.0061	0.0013	mg/kg	
156-59-2	cis-1,2-Dichloroethylene	0.0017 U	0.0061	0.0017	mg/kg	
10061-01-5	cis-1,3-Dichloropropene	0.0015 U	0.0061	0.0015	mg/kg	
156-60-5	trans-1,2-Dichloroethylene	0.0016 U	0.0061	0.0016	mg/kg	

U = Not detected SDL - Sample Detection Limit

J = Indicates an estimated value

MQL = Method Quantitation Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 2 of 2

32

3

Client Sample ID:	FR-100	Date Sampled:	12/04/07
Lab Sample ID:	T19964-2	Date Received:	12/05/07
Matrix:	SO - Soil	Percent Solids:	78.1
Method:	SW846 8260B	Project: Falcon Refinery Superfund Site/Ingleside, TX	

SW-846 8260B

CAS No.	Compound	Result	MQL	SDL	Units	Q
10061-02-6	trans-1,3-Dichloropropene	0.0017 U	0.0061	0.0017	mg/kg	
100-41-4	Ethylbenzene	0.0015 U	0.0061	0.0015	mg/kg	
60-29-7	Ethyl Ether	0.0061 U	0.0061	0.0061	mg/kg	
110-54-3	Hexane	0.0013 U	0.0061	0.0013	mg/kg	
591-78-6	2-Hexanone	0.0084 U	0.061	0.0084	mg/kg	
87-68-3	Hexachlorobutadiene	0.0014 U	0.0061	0.0014	mg/kg	
98-82-8	Isopropylbenzene	0.0015 U	0.0061	0.0015	mg/kg	
99-87-6	p-Isopropyltoluene	0.0015 U	0.0061	0.0015	mg/kg	
108-10-1	4-Methyl-2-pentanone	0.0086 U	0.061	0.0086	mg/kg	
74-83-9	Methyl bromide	0.0018 U	0.0061	0.0018	mg/kg	
74-87-3	Methyl chloride	0.0018 U	0.0061	0.0018	mg/kg	
74-95-3	Methylene bromide	0.0024 U	0.0061	0.0024	mg/kg	
75-09-2	Methylene chloride	0.0030 U	0.012	0.0030	mg/kg	
78-93-3	Methyl ethyl ketone	0.0083 U	0.061	0.0083	mg/kg	
103-65-1	n-Propylbenzene	0.0014 U	0.0061	0.0014	mg/kg	
100-42-5	Styrene	0.0016 U	0.0061	0.0016	mg/kg	
630-20-6	1,1,1,2-Tetrachloroethane	0.0017 U	0.0061	0.0017	mg/kg	
71-55-6	1,1,1-Trichloroethane	0.0015 U	0.0061	0.0015	mg/kg	
79-34-5	1,1,2,2-Tetrachloroethane	0.0018 U	0.0061	0.0018	mg/kg	
79-00-5	1,1,2-Trichloroethane	0.0017 U	0.0061	0.0017	mg/kg	
87-61-6	1,2,3-Trichlorobenzene	0.0015 U	0.0061	0.0015	mg/kg	
96-18-4	1,2,3-Trichloropropane	0.0017 U	0.0061	0.0017	mg/kg	
120-82-1	1,2,4-Trichlorobenzene	0.0012 U	0.0061	0.0012	mg/kg	
95-63-6	1,2,4-Trimethylbenzene	0.0014 U	0.0061	0.0014	mg/kg	
108-67-8	1,3,5-Trimethylbenzene	0.0013 U	0.0061	0.0013	mg/kg	
127-18-4	Tetrachloroethylene	0.0016 U	0.0061	0.0016	mg/kg	
108-88-3	Toluene	0.0015	0.0061	0.0015	mg/kg	J
79-01-6	Trichloroethylene	0.0016 U	0.0061	0.0016	mg/kg	
75-69-4	Trichlorofluoromethane	0.0012 U	0.0061	0.0012	mg/kg	
75-01-4	Vinyl chloride	0.0017 U	0.0061	0.0017	mg/kg	
108-05-4	Vinyl Acetate	0.0093 U	0.031	0.0093	mg/kg	
1330-20-7	Xylene (total)	0.0046 U	0.018	0.0046	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	109%		68-127%
2037-26-5	Toluene-D8	128%		76-139%
460-00-4	4-Bromofluorobenzene	161%		68-167%
17060-07-0	1,2-Dichloroethane-D4	98%		56-121%

U = Not detected SDL - Sample Detection Limit
 MQL = Method Quantitation Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 3

32

3

Client Sample ID:	FR-100	Date Sampled:	12/04/07
Lab Sample ID:	T19964-2	Date Received:	12/05/07
Matrix:	SO - Soil	Percent Solids:	78.1
Method:	SW846 8270C SW846 3550B		
Project:	Falcon Refinery Superfund Site/Ingleside, TX		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	A24851.D	1	12/13/07	SC	12/07/07	OP8652	EA1542

Run #1	Initial Weight	Final Volume
Run #1	30.5 g	1.0 ml
Run #2		

SW-846 8270C

CAS No.	Compound	Result	MQL	SDL	Units	Q
108-98-5	Benzene thiol	0.21 U	0.21	0.21	mg/kg	
65-85-0	Benzoic acid	0.052 U	1.0	0.052	mg/kg	
95-57-8	2-Chlorophenol	0.065 U	0.21	0.065	mg/kg	
59-50-7	4-Chloro-3-methyl phenol	0.048 U	0.21	0.048	mg/kg	
120-83-2	2,4-Dichlorophenol	0.071 U	0.21	0.071	mg/kg	
105-67-9	2,4-Dimethylphenol	0.067 U	0.21	0.067	mg/kg	
51-28-5	2,4-Dinitrophenol	0.071 U	1.0	0.071	mg/kg	
534-52-1	4,6-Dinitro-o-cresol	0.13 U	0.42	0.13	mg/kg	
95-48-7	2-Methylphenol	0.046 U	0.21	0.046	mg/kg	
	3&4-Methylphenol	0.069 U	0.21	0.069	mg/kg	
100-02-7	4-Nitrophenol	0.083 U	0.21	0.083	mg/kg	
87-86-5	Pentachlorophenol	0.055 U	1.0	0.055	mg/kg	
108-95-2	Phenol	0.084 U	0.21	0.084	mg/kg	
95-95-4	2,4,5-Trichlorophenol	0.059 U	0.21	0.059	mg/kg	
88-06-2	2,4,6-Trichlorophenol	0.056 U	0.21	0.056	mg/kg	
83-32-9	Acenaphthene	0.051 U	0.21	0.051	mg/kg	
208-96-8	Acenaphthylene	0.057 U	0.21	0.057	mg/kg	
120-12-7	Anthracene	0.068 U	0.21	0.068	mg/kg	
56-55-3	Benzo(a)anthracene	0.078 U	0.21	0.078	mg/kg	
50-32-8	Benzo(a)pyrene	0.068 U	0.21	0.068	mg/kg	
205-99-2	Benzo(b)fluoranthene	0.088 U	0.21	0.088	mg/kg	
191-24-2	Benzo(g,h,i)perylene	0.12 U	0.21	0.12	mg/kg	
207-08-9	Benzo(k)fluoranthene	0.096 U	0.21	0.096	mg/kg	
101-55-3	4-Bromophenyl phenyl ether	0.080 U	0.21	0.080	mg/kg	
85-68-7	Butyl benzyl phthalate	0.10 U	0.21	0.10	mg/kg	
100-51-6	Benzyl Alcohol	0.074 U	0.21	0.074	mg/kg	
91-58-7	2-Chloronaphthalene	0.058 U	0.21	0.058	mg/kg	
106-47-8	4-Chloroaniline	0.059 U	0.21	0.059	mg/kg	
86-74-8	Carbazole	0.090 U	0.21	0.090	mg/kg	
218-01-9	Chrysene	0.069 U	0.21	0.069	mg/kg	
111-91-1	bis(2-Chloroethoxy)methane	0.078 U	0.21	0.078	mg/kg	
111-44-4	bis(2-Chloroethyl)ether	0.045 U	0.21	0.045	mg/kg	

U = Not detected SDL - Sample Detection Limit

J = Indicates an estimated value

MQL = Method Quantitation Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 2 of 3

32

3

Client Sample ID:	FR-100	Date Sampled:	12/04/07
Lab Sample ID:	T19964-2	Date Received:	12/05/07
Matrix:	SO - Soil	Percent Solids:	78.1
Method:	SW846 8270C SW846 3550B		
Project:	Falcon Refinery Superfund Site/Ingleside, TX		

SW-846 8270C

CAS No.	Compound	Result	MQL	SDL	Units	Q
7005-72-3	4-Chlorophenyl phenyl ether	0.064 U	0.21	0.064	mg/kg	
95-50-1	1,2-Dichlorobenzene	0.071 U	0.21	0.071	mg/kg	
541-73-1	1,3-Dichlorobenzene	0.065 U	0.21	0.065	mg/kg	
106-46-7	1,4-Dichlorobenzene	0.058 U	0.21	0.058	mg/kg	
121-14-2	2,4-Dinitrotoluene	0.092 U	0.21	0.092	mg/kg	
606-20-2	2,6-Dinitrotoluene	0.054 U	0.21	0.054	mg/kg	
91-94-1	3,3'-Dichlorobenzidine	0.085 U	0.42	0.085	mg/kg	
57-97-6	7,12-Dimethylbenz(a)anthracene	0.21 U	0.21	0.21	mg/kg	
226-36-8	Dibenz(a,h)acridine	0.21 U	0.21	0.21	mg/kg	
53-70-3	Dibenzo(a,h)anthracene	0.073 U	0.21	0.073	mg/kg	
132-64-9	Dibenzofuran	0.058 U	0.21	0.058	mg/kg	
122-39-4	Diphenylamine	0.092 U	0.21	0.092	mg/kg	
84-74-2	Di-n-butyl phthalate	0.10 U	0.21	0.10	mg/kg	
117-84-0	Di-n-octyl phthalate	0.19 U	0.21	0.19	mg/kg	
84-66-2	Diethyl phthalate	0.058 U	0.21	0.058	mg/kg	
131-11-3	Dimethyl phthalate	0.052 U	0.21	0.052	mg/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	0.10 U	0.21	0.10	mg/kg	
206-44-0	Fluoranthene	0.094 U	0.21	0.094	mg/kg	
86-73-7	Fluorene	0.064 U	0.21	0.064	mg/kg	
118-74-1	Hexachlorobenzene	0.069 U	0.21	0.069	mg/kg	
87-68-3	Hexachlorobutadiene	0.064 U	0.21	0.064	mg/kg	
77-47-4	Hexachlorocyclopentadiene	0.076 U	0.21	0.076	mg/kg	
67-72-1	Hexachloroethane	0.062 U	0.21	0.062	mg/kg	
95-13-6	Indene	1.0 U	1.0	1.0	mg/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	0.081 U	0.21	0.081	mg/kg	
78-59-1	Isophorone	0.055 U	0.21	0.055	mg/kg	
90-12-0	1-Methylnaphthalene	0.050 U	0.21	0.050	mg/kg	
91-57-6	2-Methylnaphthalene	0.056 U	0.21	0.056	mg/kg	
	6-Methyl Chrysene	0.21 U	0.21	0.21	mg/kg	
88-74-4	2-Nitroaniline	0.055 U	0.21	0.055	mg/kg	
99-09-2	3-Nitroaniline	0.078 U	0.21	0.078	mg/kg	
100-01-6	4-Nitroaniline	0.11 U	0.21	0.11	mg/kg	
91-20-3	Naphthalene	0.051 U	0.21	0.051	mg/kg	
98-95-3	Nitrobenzene	0.059 U	0.21	0.059	mg/kg	
621-64-7	N-Nitroso-di-n-propylamine	0.084 U	0.21	0.084	mg/kg	
86-30-6	N-Nitrosodiphenylamine	0.092 U	0.21	0.092	mg/kg	
85-01-8	Phenanthrene	0.078 U	0.21	0.078	mg/kg	
129-00-0	Pyrene	0.10 U	0.21	0.10	mg/kg	
91-22-5	Quinoline	0.21 U	0.21	0.21	mg/kg	
120-82-1	1,2,4-Trichlorobenzene	0.055 U	0.21	0.055	mg/kg	

U = Not detected

SDL - Sample Detection Limit

MQL = Method Quantitation Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 3 of 3

32

3

Client Sample ID:	FR-100	Date Sampled:	12/04/07
Lab Sample ID:	T19964-2	Date Received:	12/05/07
Matrix:	SO - Soil	Percent Solids:	78.1
Method:	SW846 8270C SW846 3550B		
Project:	Falcon Refinery Superfund Site/Ingleside, TX		

SW-846 8270C

CAS No.	Compound	Result	MQL	SDL	Units	Q
931-17-9	1,3&1,4-Cyclohexanediol	0.21 U	0.21	0.21	mg/kg	
	1,2-Cyclohexanediol	0.21 U	0.21	0.21	mg/kg	
98-85-1	1-Phenylethanol	0.21 U	0.21	0.21	mg/kg	
CAS No. Surrogate Recoveries Run# 1 Run# 2 Limits						
367-12-4	2-Fluorophenol	56%			26-124%	
4165-62-2	Phenol-d5	61%			19-106%	
118-79-6	2,4,6-Tribromophenol	100%			18-129%	
4165-60-0	Nitrobenzene-d5	64%			18-104%	
321-60-8	2-Fluorobiphenyl	69%			21-114%	
1718-51-0	Terphenyl-d14	112%			24-149%	

U = Not detected SDL - Sample Detection Limit
 MQL = Method Quantitation Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 1

3
2
3

Client Sample ID:	FR-100	Date Sampled:	12/04/07
Lab Sample ID:	T19964-2	Date Received:	12/05/07
Matrix:	SO - Soil	Percent Solids:	78.1
Project:	Falcon Refinery Superfund Site/Ingleside, TX		

Metals Analysis

Analyte	Result	MQL	SDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Aluminum	16700	24	5.2	mg/kg	1	12/10/07	12/11/07	NS	SW846 6010B ¹
Antimony	0.32 U	1.2	0.32	mg/kg	1	12/10/07	12/11/07	NS	SW846 6010B ¹
Arsenic	1.5	1.2	0.24	mg/kg	1	12/10/07	12/11/07	NS	SW846 6010B ¹
Barium	59.7	24	0.071	mg/kg	1	12/10/07	12/11/07	NS	SW846 6010B ¹
Beryllium	0.48 B	0.59	0.024	mg/kg	1	12/10/07	12/11/07	NS	SW846 6010B ¹
Cadmium	0.12 U	0.59	0.12	mg/kg	1	12/10/07	12/11/07	NS	SW846 6010B ¹
Calcium	8900	590	2.0	mg/kg	1	12/10/07	12/11/07	NS	SW846 6010B ¹
Chromium	10.2	1.2	0.083	mg/kg	1	12/10/07	12/11/07	NS	SW846 6010B ¹
Cobalt	2.2 B	5.9	0.21	mg/kg	1	12/10/07	12/11/07	NS	SW846 6010B ¹
Copper	4.9	3.0	0.15	mg/kg	1	12/10/07	12/11/07	NS	SW846 6010B ¹
Iron	8510	12	2.7	mg/kg	1	12/10/07	12/12/07	NS	SW846 6010B ³
Lead	18.5	1.2	0.47	mg/kg	1	12/10/07	12/11/07	NS	SW846 6010B ¹
Magnesium	3060	590	1.4	mg/kg	1	12/10/07	12/11/07	NS	SW846 6010B ¹
Manganese	77.7	1.8	0.083	mg/kg	1	12/10/07	12/11/07	NS	SW846 6010B ¹
Mercury	0.024	0.019	0.00074	mg/kg	1	12/12/07	12/12/07	NS	SW846 7471A ²
Nickel	4.7	4.7	0.15	mg/kg	1	12/10/07	12/11/07	NS	SW846 6010B ¹
Potassium	3620	590	37	mg/kg	1	12/10/07	12/11/07	NS	SW846 6010B ¹
Selenium	0.28 U	1.2	0.28	mg/kg	1	12/10/07	12/11/07	NS	SW846 6010B ¹
Silver	0.095 U	1.2	0.095	mg/kg	1	12/10/07	12/11/07	NS	SW846 6010B ¹
Sodium	852	590	32	mg/kg	1	12/10/07	12/11/07	NS	SW846 6010B ¹
Thallium	0.59 U	2.4	0.59	mg/kg	1	12/10/07	12/11/07	NS	SW846 6010B ¹
Vanadium	17.9	5.9	0.14	mg/kg	1	12/10/07	12/11/07	NS	SW846 6010B ¹
Zinc	27.5	2.4	0.47	mg/kg	1	12/10/07	12/11/07	NS	SW846 6010B ¹

- (1) Instrument QC Batch: MA3269
- (2) Instrument QC Batch: MA3272
- (3) Instrument QC Batch: MA3273
- (4) Prep QC Batch: MP7001
- (5) Prep QC Batch: MP7020

MQL = Method Quantitation Limit
 SDL = Sample Detection Limit

U = Indicates a result < SDL
 B = Indicates a result >= SDL but < MQL

Report of Analysis

Page 1 of 1

32

3

Client Sample ID:	FR-100	Date Sampled:	12/04/07
Lab Sample ID:	T19964-2	Date Received:	12/05/07
Matrix:	SO - Soil	Percent Solids:	78.1
Project:	Falcon Refinery Superfund Site/Ingleside, TX		

General Chemistry

Analyte	Result	MQL	SDL	Units	DF	Analyzed	By	Method
Chromium, Hexavalent ^a	1.3 U	2.6	1.3	mg/kg	1	12/21/07	AFL	SW846 3060A/7196A
Solids, Percent	78.1			%	1	12/12/07	TW	EPA 160.3 M

(a) Analysis performed at Accutest Laboratories, Orlando, FL.

MQL = Method Quantitation Limit
 SDL = Sample Detection Limit

U = Indicates a result < SDL
 B = Indicates a result >= SDL but < MQL

Report of Analysis

Page 1 of 2

33

3

Client Sample ID: FR-101
Lab Sample ID: T19964-3
Matrix: SO - Soil
Method: SW846 8260B
Project: Falcon Refinery Superfund Site/Ingleside, TX

Date Sampled: 12/04/07
Date Received: 12/05/07
Percent Solids: 78.2

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M0001121.D	1	12/10/07	LJ	n/a	n/a	VM47
Run #2							

	Initial Weight	Final Volume
Run #1	5.26 g	5.0 ml
Run #2		

SW-846 8260B

CAS No.	Compound	Result	MQL	SDL	Units	Q
67-64-1	Acetone	0.0100	0.061	0.0087	mg/kg	J
71-43-2	Benzene	0.0017 U	0.0061	0.0017	mg/kg	
108-86-1	Bromobenzene	0.0015 U	0.0061	0.0015	mg/kg	
74-97-5	Bromochloromethane	0.0018 U	0.0061	0.0018	mg/kg	
75-27-4	Bromodichloromethane	0.0017 U	0.0061	0.0017	mg/kg	
75-25-2	Bromoform	0.0015 U	0.0061	0.0015	mg/kg	
71-36-3	n-Butyl Alcohol	0.061 U	0.061	0.061	mg/kg	
104-51-8	n-Butylbenzene	0.0012 U	0.0061	0.0012	mg/kg	
98-06-6	tert-Butylbenzene	0.0012 U	0.0061	0.0012	mg/kg	
108-90-7	Chlorobenzene	0.0017 U	0.0061	0.0017	mg/kg	
75-00-3	Chloroethane	0.0017 U	0.0061	0.0017	mg/kg	
67-66-3	Chloroform	0.0015 U	0.0061	0.0015	mg/kg	
95-49-8	o-Chlorotoluene	0.0014 U	0.0061	0.0014	mg/kg	
106-43-4	p-Chlorotoluene	0.0014 U	0.0061	0.0014	mg/kg	
75-15-0	Carbon disulfide	0.0015 U	0.012	0.0015	mg/kg	
56-23-5	Carbon tetrachloride	0.0013 U	0.0061	0.0013	mg/kg	
110-82-7	Cyclohexane	0.0014 U	0.0061	0.0014	mg/kg	
75-34-3	1,1-Dichloroethane	0.0016 U	0.0061	0.0016	mg/kg	
75-35-4	1,1-Dichloroethylene	0.0015 U	0.0061	0.0015	mg/kg	
563-58-6	1,1-Dichloropropene	0.0014 U	0.0061	0.0014	mg/kg	
96-12-8	1,2-Dibromo-3-chloropropane	0.0017 U	0.0061	0.0017	mg/kg	
106-93-4	1,2-Dibromoethane	0.0017 U	0.0061	0.0017	mg/kg	
107-06-2	1,2-Dichloroethane	0.0017 U	0.0061	0.0017	mg/kg	
78-87-5	1,2-Dichloropropane	0.0018 U	0.0061	0.0018	mg/kg	
142-28-9	1,3-Dichloropropane	0.0018 U	0.0061	0.0018	mg/kg	
123-91-1	1,4-Dioxane	0.029 U	0.30	0.029	mg/kg	
594-20-7	2,2-Dichloropropane	0.0013 U	0.0061	0.0013	mg/kg	
124-48-1	Dibromochloromethane	0.0017 U	0.0061	0.0017	mg/kg	
75-71-8	Dichlorodifluoromethane	0.0013 U	0.0061	0.0013	mg/kg	
156-59-2	cis-1,2-Dichloroethylene	0.0017 U	0.0061	0.0017	mg/kg	
10061-01-5	cis-1,3-Dichloropropene	0.0015 U	0.0061	0.0015	mg/kg	
156-60-5	trans-1,2-Dichloroethylene	0.0016 U	0.0061	0.0016	mg/kg	

U = Not detected SDL - Sample Detection Limit

J = Indicates an estimated value

MQL = Method Quantitation Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 2 of 2

33

3

Client Sample ID:	FR-101	Date Sampled:	12/04/07
Lab Sample ID:	T19964-3	Date Received:	12/05/07
Matrix:	SO - Soil	Percent Solids:	78.2
Method:	SW846 8260B	Falcon Refinery Superfund Site/Ingleside, TX	
Project:			

SW-846 8260B

CAS No.	Compound	Result	MQL	SDL	Units	Q
10061-02-6	trans-1,3-Dichloropropene	0.0016 U	0.0061	0.0016	mg/kg	
100-41-4	Ethylbenzene	0.0015 U	0.0061	0.0015	mg/kg	
60-29-7	Ethyl Ether	0.0061 U	0.0061	0.0061	mg/kg	
110-54-3	Hexane	0.0013 U	0.0061	0.0013	mg/kg	
591-78-6	2-Hexanone	0.0083 U	0.061	0.0083	mg/kg	
87-68-3	Hexachlorobutadiene	0.0014 U	0.0061	0.0014	mg/kg	
98-82-8	Isopropylbenzene	0.0014 U	0.0061	0.0014	mg/kg	
99-87-6	p-Isopropyltoluene	0.0015 U	0.0061	0.0015	mg/kg	
108-10-1	4-Methyl-2-pentanone	0.0085 U	0.061	0.0085	mg/kg	
74-83-9	Methyl bromide	0.0018 U	0.0061	0.0018	mg/kg	
74-87-3	Methyl chloride	0.0018 U	0.0061	0.0018	mg/kg	
74-95-3	Methylene bromide	0.0024 U	0.0061	0.0024	mg/kg	
75-09-2	Methylene chloride	0.0030 U	0.012	0.0030	mg/kg	
78-93-3	Methyl ethyl ketone	0.0082 U	0.061	0.0082	mg/kg	
103-65-1	n-Propylbenzene	0.0013 U	0.0061	0.0013	mg/kg	
100-42-5	Styrene	0.0015 U	0.0061	0.0015	mg/kg	
630-20-6	1,1,1,2-Tetrachloroethane	0.0017 U	0.0061	0.0017	mg/kg	
71-55-6	1,1,1-Trichloroethane	0.0015 U	0.0061	0.0015	mg/kg	
79-34-5	1,1,2,2-Tetrachloroethane	0.0018 U	0.0061	0.0018	mg/kg	
79-00-5	1,1,2-Trichloroethane	0.0017 U	0.0061	0.0017	mg/kg	
87-61-6	1,2,3-Trichlorobenzene	0.0015 U	0.0061	0.0015	mg/kg	
96-18-4	1,2,3-Trichloropropane	0.0017 U	0.0061	0.0017	mg/kg	
120-82-1	1,2,4-Trichlorobenzene	0.0012 U	0.0061	0.0012	mg/kg	
95-63-6	1,2,4-Trimethylbenzene	0.0013 U	0.0061	0.0013	mg/kg	
108-67-8	1,3,5-Trimethylbenzene	0.0013 U	0.0061	0.0013	mg/kg	
127-18-4	Tetrachloroethylene	0.0016 U	0.0061	0.0016	mg/kg	
108-88-3	Toluene	0.0015 U	0.0061	0.0015	mg/kg	
79-01-6	Trichloroethylene	0.0016 U	0.0061	0.0016	mg/kg	
75-69-4	Trichlorofluoromethane	0.0012 U	0.0061	0.0012	mg/kg	
75-01-4	Vinyl chloride	0.0017 U	0.0061	0.0017	mg/kg	
108-05-4	Vinyl Acetate	0.0092 U	0.030	0.0092	mg/kg	
1330-20-7	Xylene (total)	0.0046 U	0.018	0.0046	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	110%		68-127%
2037-26-5	Toluene-D8	119%		76-139%
460-00-4	4-Bromofluorobenzene	119%		68-167%
17060-07-0	1,2-Dichloroethane-D4	98%		56-121%

U = Not detected SDL - Sample Detection Limit

J = Indicates an estimated value

MQL = Method Quantitation Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 3

33

3

Client Sample ID:	FR-101	Date Sampled:	12/04/07
Lab Sample ID:	T19964-3	Date Received:	12/05/07
Matrix:	SO - Soil	Percent Solids:	78.2
Method:	SW846 8270C SW846 3550B		
Project:	Falcon Refinery Superfund Site/Ingleside, TX		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	A24828.D	1	12/12/07	SC	12/07/07	OP8652	EA1541

Run #1	Initial Weight	Final Volume
Run #1	30.1 g	1.0 ml
Run #2		

SW-846 8270C

CAS No.	Compound	Result	MQL	SDL	Units	Q
108-98-5	Benzene thiol	0.21 U	0.21	0.21	mg/kg	
65-85-0	Benzoic acid	0.053 U	1.1	0.053	mg/kg	
95-57-8	2-Chlorophenol	0.065 U	0.21	0.065	mg/kg	
59-50-7	4-Chloro-3-methyl phenol	0.048 U	0.21	0.048	mg/kg	
120-83-2	2,4-Dichlorophenol	0.072 U	0.21	0.072	mg/kg	
105-67-9	2,4-Dimethylphenol	0.068 U	0.21	0.068	mg/kg	
51-28-5	2,4-Dinitrophenol	0.072 U	1.1	0.072	mg/kg	
534-52-1	4,6-Dinitro-o-cresol	0.14 U	0.42	0.14	mg/kg	
95-48-7	2-Methylphenol	0.046 U	0.21	0.046	mg/kg	
	3&4-Methylphenol	0.070 U	0.21	0.070	mg/kg	
100-02-7	4-Nitrophenol	0.084 U	0.21	0.084	mg/kg	
87-86-5	Pentachlorophenol	0.056 U	1.1	0.056	mg/kg	
108-95-2	Phenol	0.085 U	0.21	0.085	mg/kg	
95-95-4	2,4,5-Trichlorophenol	0.059 U	0.21	0.059	mg/kg	
88-06-2	2,4,6-Trichlorophenol	0.057 U	0.21	0.057	mg/kg	
83-32-9	Acenaphthene	0.051 U	0.21	0.051	mg/kg	
208-96-8	Acenaphthylene	0.057 U	0.21	0.057	mg/kg	
120-12-7	Anthracene	0.069 U	0.21	0.069	mg/kg	
56-55-3	Benzo(a)anthracene	0.079 U	0.21	0.079	mg/kg	
50-32-8	Benzo(a)pyrene	0.069 U	0.21	0.069	mg/kg	
205-99-2	Benzo(b)fluoranthene	0.090 U	0.21	0.090	mg/kg	
191-24-2	Benzo(g,h,i)perylene	0.12 U	0.21	0.12	mg/kg	
207-08-9	Benzo(k)fluoranthene	0.098 U	0.21	0.098	mg/kg	
101-55-3	4-Bromophenyl phenyl ether	0.081 U	0.21	0.081	mg/kg	
85-68-7	Butyl benzyl phthalate	0.10 U	0.21	0.10	mg/kg	
100-51-6	Benzyl Alcohol	0.075 U	0.21	0.075	mg/kg	
91-58-7	2-Chloronaphthalene	0.059 U	0.21	0.059	mg/kg	
106-47-8	4-Chloroaniline	0.060 U	0.21	0.060	mg/kg	
86-74-8	Carbazole	0.091 U	0.21	0.091	mg/kg	
218-01-9	Chrysene	0.070 U	0.21	0.070	mg/kg	
111-91-1	bis(2-Chloroethoxy)methane	0.079 U	0.21	0.079	mg/kg	
111-44-4	bis(2-Chloroethyl)ether	0.045 U	0.21	0.045	mg/kg	

U = Not detected SDL - Sample Detection Limit

J = Indicates an estimated value

MQL = Method Quantitation Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 2 of 3

33

3

Client Sample ID:	FR-101	Date Sampled:	12/04/07
Lab Sample ID:	T19964-3	Date Received:	12/05/07
Matrix:	SO - Soil	Percent Solids:	78.2
Method:	SW846 8270C SW846 3550B		
Project:	Falcon Refinery Superfund Site/Ingleside, TX		

SW-846 8270C

CAS No.	Compound	Result	MQL	SDL	Units	Q
7005-72-3	4-Chlorophenyl phenyl ether	0.065 U	0.21	0.065	mg/kg	
95-50-1	1,2-Dichlorobenzene	0.072 U	0.21	0.072	mg/kg	
541-73-1	1,3-Dichlorobenzene	0.066 U	0.21	0.066	mg/kg	
106-46-7	1,4-Dichlorobenzene	0.059 U	0.21	0.059	mg/kg	
121-14-2	2,4-Dinitrotoluene	0.093 U	0.21	0.093	mg/kg	
606-20-2	2,6-Dinitrotoluene	0.055 U	0.21	0.055	mg/kg	
91-94-1	3,3'-Dichlorobenzidine	0.086 U	0.42	0.086	mg/kg	
57-97-6	7,12-Dimethylbenz(a)anthracene	0.21 U	0.21	0.21	mg/kg	
226-36-8	Dibenz(a,h)acridine	0.21 U	0.21	0.21	mg/kg	
53-70-3	Dibenzo(a,h)anthracene	0.074 U	0.21	0.074	mg/kg	
132-64-9	Dibenzofuran	0.059 U	0.21	0.059	mg/kg	
122-39-4	Diphenylamine	0.093 U	0.21	0.093	mg/kg	
84-74-2	Di-n-butyl phthalate	0.10 U	0.21	0.10	mg/kg	
117-84-0	Di-n-octyl phthalate	0.20 U	0.21	0.20	mg/kg	
84-66-2	Diethyl phthalate	0.059 U	0.21	0.059	mg/kg	
131-11-3	Dimethyl phthalate	0.053 U	0.21	0.053	mg/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	0.11 U	0.21	0.11	mg/kg	
206-44-0	Fluoranthene	0.096 U	0.21	0.096	mg/kg	
86-73-7	Fluorene	0.065 U	0.21	0.065	mg/kg	
118-74-1	Hexachlorobenzene	0.070 U	0.21	0.070	mg/kg	
87-68-3	Hexachlorobutadiene	0.065 U	0.21	0.065	mg/kg	
77-47-4	Hexachlorocyclopentadiene	0.077 U	0.21	0.077	mg/kg	
67-72-1	Hexachloroethane	0.062 U	0.21	0.062	mg/kg	
95-13-6	Indene	1.1 U	1.1	1.1	mg/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	0.082 U	0.21	0.082	mg/kg	
78-59-1	Isophorone	0.056 U	0.21	0.056	mg/kg	
90-12-0	1-Methylnaphthalene	0.051 U	0.21	0.051	mg/kg	
91-57-6	2-Methylnaphthalene	0.057 U	0.21	0.057	mg/kg	
	6-Methyl Chrysene	0.21 U	0.21	0.21	mg/kg	
88-74-4	2-Nitroaniline	0.055 U	0.21	0.055	mg/kg	
99-09-2	3-Nitroaniline	0.079 U	0.21	0.079	mg/kg	
100-01-6	4-Nitroaniline	0.12 U	0.21	0.12	mg/kg	
91-20-3	Naphthalene	0.051 U	0.21	0.051	mg/kg	
98-95-3	Nitrobenzene	0.059 U	0.21	0.059	mg/kg	
621-64-7	N-Nitroso-di-n-propylamine	0.085 U	0.21	0.085	mg/kg	
86-30-6	N-Nitrosodiphenylamine	0.093 U	0.21	0.093	mg/kg	
85-01-8	Phenanthrene	0.079 U	0.21	0.079	mg/kg	
129-00-0	Pyrene	0.10 U	0.21	0.10	mg/kg	
91-22-5	Quinoline	0.21 U	0.21	0.21	mg/kg	
120-82-1	1,2,4-Trichlorobenzene	0.056 U	0.21	0.056	mg/kg	

U = Not detected

SDL - Sample Detection Limit

MQL = Method Quantitation Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 3 of 3

33

3

Client Sample ID:	FR-101	Date Sampled:	12/04/07
Lab Sample ID:	T19964-3	Date Received:	12/05/07
Matrix:	SO - Soil	Percent Solids:	78.2
Method:	SW846 8270C SW846 3550B		
Project:	Falcon Refinery Superfund Site/Ingleside, TX		

SW-846 8270C

CAS No.	Compound	Result	MQL	SDL	Units	Q
931-17-9	1,3&1,4-Cyclohexanediol	0.21 U	0.21	0.21	mg/kg	
	1,2-Cyclohexanediol	0.21 U	0.21	0.21	mg/kg	
98-85-1	1-Phenylethanol	0.21 U	0.21	0.21	mg/kg	
CAS No. Surrogate Recoveries Run# 1 Run# 2 Limits						
367-12-4	2-Fluorophenol	60%			26-124%	
4165-62-2	Phenol-d5	65%			19-106%	
118-79-6	2,4,6-Tribromophenol	73%			18-129%	
4165-60-0	Nitrobenzene-d5	67%			18-104%	
321-60-8	2-Fluorobiphenyl	67%			21-114%	
1718-51-0	Terphenyl-d14	73%			24-149%	

U = Not detected SDL - Sample Detection Limit
 MQL = Method Quantitation Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 1

33

3

Client Sample ID:	FR-101	Date Sampled:	12/04/07
Lab Sample ID:	T19964-3	Date Received:	12/05/07
Matrix:	SO - Soil	Percent Solids:	78.2
Project:	Falcon Refinery Superfund Site/Ingleside, TX		

Metals Analysis

Analyte	Result	MQL	SDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Aluminum	1390	22	4.8	mg/kg	1	12/10/07	12/11/07	NS	SW846 6010B ¹
Antimony	0.30 U	1.1	0.30	mg/kg	1	12/10/07	12/11/07	NS	SW846 6010B ¹
Arsenic	0.23 B	1.1	0.22	mg/kg	1	12/10/07	12/11/07	NS	SW846 6010B ¹
Barium	13.5 B	22	0.066	mg/kg	1	12/10/07	12/11/07	NS	SW846 6010B ¹
Beryllium	0.023 B	0.55	0.022	mg/kg	1	12/10/07	12/11/07	NS	SW846 6010B ¹
Cadmium	0.11 U	0.55	0.11	mg/kg	1	12/10/07	12/11/07	NS	SW846 6010B ¹
Calcium	708	550	1.9	mg/kg	1	12/10/07	12/11/07	NS	SW846 6010B ¹
Chromium	0.76 B	1.1	0.077	mg/kg	1	12/10/07	12/11/07	NS	SW846 6010B ¹
Cobalt	0.31 B	5.5	0.20	mg/kg	1	12/10/07	12/11/07	NS	SW846 6010B ¹
Copper	1.2 B	2.8	0.14	mg/kg	1	12/10/07	12/11/07	NS	SW846 6010B ¹
Iron	693	11	2.5	mg/kg	1	12/10/07	12/12/07	NS	SW846 6010B ³
Lead	1.7	1.1	0.44	mg/kg	1	12/10/07	12/11/07	NS	SW846 6010B ¹
Magnesium	230 B	550	1.3	mg/kg	1	12/10/07	12/11/07	NS	SW846 6010B ¹
Manganese	9.0	1.7	0.077	mg/kg	1	12/10/07	12/11/07	NS	SW846 6010B ¹
Mercury	0.0026 B	0.020	0.00078	mg/kg	1	12/12/07	12/12/07	NS	SW846 7471A ²
Nickel	0.26 B	4.4	0.14	mg/kg	1	12/10/07	12/11/07	NS	SW846 6010B ¹
Potassium	249 B	550	34	mg/kg	1	12/10/07	12/11/07	NS	SW846 6010B ¹
Selenium	0.27 U	1.1	0.27	mg/kg	1	12/10/07	12/11/07	NS	SW846 6010B ¹
Silver	0.088 U	1.1	0.088	mg/kg	1	12/10/07	12/11/07	NS	SW846 6010B ¹
Sodium	322 B	550	30	mg/kg	1	12/10/07	12/11/07	NS	SW846 6010B ¹
Thallium	0.55 U	2.2	0.55	mg/kg	1	12/10/07	12/11/07	NS	SW846 6010B ¹
Vanadium	1.7 B	5.5	0.13	mg/kg	1	12/10/07	12/11/07	NS	SW846 6010B ¹
Zinc	8.3	2.2	0.44	mg/kg	1	12/10/07	12/11/07	NS	SW846 6010B ¹

- (1) Instrument QC Batch: MA3269
- (2) Instrument QC Batch: MA3272
- (3) Instrument QC Batch: MA3273
- (4) Prep QC Batch: MP7001
- (5) Prep QC Batch: MP7020

MQL = Method Quantitation Limit
 SDL = Sample Detection Limit

U = Indicates a result < SDL
 B = Indicates a result >= SDL but < MQL

Report of Analysis

Page 1 of 1

33

3

Client Sample ID:	FR-101	Date Sampled:	12/04/07
Lab Sample ID:	T19964-3	Date Received:	12/05/07
Matrix:	SO - Soil	Percent Solids:	78.2
Project:	Falcon Refinery Superfund Site/Ingleside, TX		

General Chemistry

Analyte	Result	MQL	SDL	Units	DF	Analyzed	By	Method
Chromium, Hexavalent ^a	1.3 U	2.6	1.3	mg/kg	1	12/21/07	AFL	SW846 3060A/7196A
Solids, Percent	78.2			%	1	12/12/07	TW	EPA 160.3 M

(a) Analysis performed at Accutest Laboratories, Orlando, FL.

MQL = Method Quantitation Limit
 SDL = Sample Detection Limit

U = Indicates a result < SDL
 B = Indicates a result >= SDL but < MQL

Report of Analysis

Page 1 of 2

34

3

Client Sample ID:	FR-102	Date Sampled:	12/04/07
Lab Sample ID:	T19964-4	Date Received:	12/05/07
Matrix:	SO - Soil	Percent Solids:	89.1
Method:	SW846 8260B		
Project:	Falcon Refinery Superfund Site/Ingleside, TX		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M0001122.D	1	12/10/07	LJ	n/a	n/a	VM47

Run #1	Initial Weight	Final Volume
Run #1	5.13 g	5.0 ml
Run #2		

SW-846 8260B

CAS No.	Compound	Result	MQL	SDL	Units	Q
67-64-1	Acetone	0.0079 U	0.055	0.0079	mg/kg	
71-43-2	Benzene	0.0015 U	0.0055	0.0015	mg/kg	
108-86-1	Bromobenzene	0.0014 U	0.0055	0.0014	mg/kg	
74-97-5	Bromochloromethane	0.0016 U	0.0055	0.0016	mg/kg	
75-27-4	Bromodichloromethane	0.0015 U	0.0055	0.0015	mg/kg	
75-25-2	Bromoform	0.0013 U	0.0055	0.0013	mg/kg	
71-36-3	n-Butyl Alcohol	0.055 U	0.055	0.055	mg/kg	
104-51-8	n-Butylbenzene	0.0011 U	0.0055	0.0011	mg/kg	
98-06-6	tert-Butylbenzene	0.0011 U	0.0055	0.0011	mg/kg	
108-90-7	Chlorobenzene	0.0015 U	0.0055	0.0015	mg/kg	
75-00-3	Chloroethane	0.0016 U	0.0055	0.0016	mg/kg	
67-66-3	Chloroform	0.0014 U	0.0055	0.0014	mg/kg	
95-49-8	o-Chlorotoluene	0.0013 U	0.0055	0.0013	mg/kg	
106-43-4	p-Chlorotoluene	0.0012 U	0.0055	0.0012	mg/kg	
75-15-0	Carbon disulfide	0.0014 U	0.011	0.0014	mg/kg	
56-23-5	Carbon tetrachloride	0.0012 U	0.0055	0.0012	mg/kg	
110-82-7	Cyclohexane	0.0013 U	0.0055	0.0013	mg/kg	
75-34-3	1,1-Dichloroethane	0.0014 U	0.0055	0.0014	mg/kg	
75-35-4	1,1-Dichloroethylene	0.0014 U	0.0055	0.0014	mg/kg	
563-58-6	1,1-Dichloropropene	0.0013 U	0.0055	0.0013	mg/kg	
96-12-8	1,2-Dibromo-3-chloropropane	0.0015 U	0.0055	0.0015	mg/kg	
106-93-4	1,2-Dibromoethane	0.0015 U	0.0055	0.0015	mg/kg	
107-06-2	1,2-Dichloroethane	0.0015 U	0.0055	0.0015	mg/kg	
78-87-5	1,2-Dichloropropane	0.0016 U	0.0055	0.0016	mg/kg	
142-28-9	1,3-Dichloropropane	0.0016 U	0.0055	0.0016	mg/kg	
123-91-1	1,4-Dioxane	0.026 U	0.27	0.026	mg/kg	
594-20-7	2,2-Dichloropropane	0.0012 U	0.0055	0.0012	mg/kg	
124-48-1	Dibromochloromethane	0.0015 U	0.0055	0.0015	mg/kg	
75-71-8	Dichlorodifluoromethane	0.0012 U	0.0055	0.0012	mg/kg	
156-59-2	cis-1,2-Dichloroethylene	0.0015 U	0.0055	0.0015	mg/kg	
10061-01-5	cis-1,3-Dichloropropene	0.0014 U	0.0055	0.0014	mg/kg	
156-60-5	trans-1,2-Dichloroethylene	0.0014 U	0.0055	0.0014	mg/kg	

U = Not detected SDL - Sample Detection Limit

J = Indicates an estimated value

MQL = Method Quantitation Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 2 of 2

3
4
3

Client Sample ID:	FR-102	Date Sampled:	12/04/07
Lab Sample ID:	T19964-4	Date Received:	12/05/07
Matrix:	SO - Soil	Percent Solids:	89.1
Method:	SW846 8260B	Falcon Refinery Superfund Site/Ingleside, TX	
Project:			

SW-846 8260B

CAS No.	Compound	Result	MQL	SDL	Units	Q
10061-02-6	trans-1,3-Dichloropropene	0.0015 U	0.0055	0.0015	mg/kg	
100-41-4	Ethylbenzene	0.0014 U	0.0055	0.0014	mg/kg	
60-29-7	Ethyl Ether	0.0055 U	0.0055	0.0055	mg/kg	
110-54-3	Hexane	0.0012 U	0.0055	0.0012	mg/kg	
591-78-6	2-Hexanone	0.0075 U	0.055	0.0075	mg/kg	
87-68-3	Hexachlorobutadiene	0.0013 U	0.0055	0.0013	mg/kg	
98-82-8	Isopropylbenzene	0.0013 U	0.0055	0.0013	mg/kg	
99-87-6	p-Isopropyltoluene	0.0013 U	0.0055	0.0013	mg/kg	
108-10-1	4-Methyl-2-pentanone	0.0076 U	0.055	0.0076	mg/kg	
74-83-9	Methyl bromide	0.0016 U	0.0055	0.0016	mg/kg	
74-87-3	Methyl chloride	0.0016 U	0.0055	0.0016	mg/kg	
74-95-3	Methylene bromide	0.0022 U	0.0055	0.0022	mg/kg	
75-09-2	Methylene chloride	0.0027 U	0.011	0.0027	mg/kg	
78-93-3	Methyl ethyl ketone	0.0074 U	0.055	0.0074	mg/kg	
103-65-1	n-Propylbenzene	0.0012 U	0.0055	0.0012	mg/kg	
100-42-5	Styrene	0.0014 U	0.0055	0.0014	mg/kg	
630-20-6	1,1,1,2-Tetrachloroethane	0.0015 U	0.0055	0.0015	mg/kg	
71-55-6	1,1,1-Trichloroethane	0.0013 U	0.0055	0.0013	mg/kg	
79-34-5	1,1,2,2-Tetrachloroethane	0.0016 U	0.0055	0.0016	mg/kg	
79-00-5	1,1,2-Trichloroethane	0.0015 U	0.0055	0.0015	mg/kg	
87-61-6	1,2,3-Trichlorobenzene	0.0013 U	0.0055	0.0013	mg/kg	
96-18-4	1,2,3-Trichloropropane	0.0015 U	0.0055	0.0015	mg/kg	
120-82-1	1,2,4-Trichlorobenzene	0.0011 U	0.0055	0.0011	mg/kg	
95-63-6	1,2,4-Trimethylbenzene	0.0012 U	0.0055	0.0012	mg/kg	
108-67-8	1,3,5-Trimethylbenzene	0.0012 U	0.0055	0.0012	mg/kg	
127-18-4	Tetrachloroethylene	0.0014 U	0.0055	0.0014	mg/kg	
108-88-3	Toluene	0.0014 U	0.0055	0.0014	mg/kg	
79-01-6	Trichloroethylene	0.0014 U	0.0055	0.0014	mg/kg	
75-69-4	Trichlorofluoromethane	0.0011 U	0.0055	0.0011	mg/kg	
75-01-4	Vinyl chloride	0.0015 U	0.0055	0.0015	mg/kg	
108-05-4	Vinyl Acetate	0.0083 U	0.027	0.0083	mg/kg	
1330-20-7	Xylene (total)	0.0041 U	0.016	0.0041	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	111%		68-127%
2037-26-5	Toluene-D8	125%		76-139%
460-00-4	4-Bromofluorobenzene	131%		68-167%
17060-07-0	1,2-Dichloroethane-D4	98%		56-121%

U = Not detected SDL - Sample Detection Limit
 MQL = Method Quantitation Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 3

34

3

Client Sample ID:	FR-102	Date Sampled:	12/04/07
Lab Sample ID:	T19964-4	Date Received:	12/05/07
Matrix:	SO - Soil	Percent Solids:	89.1
Method:	SW846 8270C SW846 3550B		
Project:	Falcon Refinery Superfund Site/Ingleside, TX		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
	A24835.D	1	12/12/07	SC	12/07/07	OP8657	EA1541
Run #2							

	Initial Weight	Final Volume
Run #1	30.7 g	1.0 ml
Run #2		

SW-846 8270C

CAS No.	Compound	Result	MQL	SDL	Units	Q
108-98-5	Benzene thiol	0.18 U	0.18	0.18	mg/kg	
65-85-0	Benzoic acid	0.046 U	0.91	0.046	mg/kg	
95-57-8	2-Chlorophenol	0.056 U	0.18	0.056	mg/kg	
59-50-7	4-Chloro-3-methyl phenol	0.042 U	0.18	0.042	mg/kg	
120-83-2	2,4-Dichlorophenol	0.062 U	0.18	0.062	mg/kg	
105-67-9	2,4-Dimethylphenol	0.058 U	0.18	0.058	mg/kg	
51-28-5	2,4-Dinitrophenol	0.062 U	0.91	0.062	mg/kg	
534-52-1	4,6-Dinitro-o-cresol	0.12 U	0.37	0.12	mg/kg	
95-48-7	2-Methylphenol	0.040 U	0.18	0.040	mg/kg	
	3&4-Methylphenol	0.060 U	0.18	0.060	mg/kg	
100-02-7	4-Nitrophenol	0.072 U	0.18	0.072	mg/kg	
87-86-5	Pentachlorophenol	0.048 U	0.91	0.048	mg/kg	
108-95-2	Phenol	0.074 U	0.18	0.074	mg/kg	
95-95-4	2,4,5-Trichlorophenol	0.051 U	0.18	0.051	mg/kg	
88-06-2	2,4,6-Trichlorophenol	0.049 U	0.18	0.049	mg/kg	
83-32-9	Acenaphthene	0.044 U	0.18	0.044	mg/kg	
208-96-8	Acenaphthylene	0.049 U	0.18	0.049	mg/kg	
120-12-7	Anthracene	0.060 U	0.18	0.060	mg/kg	
56-55-3	Benzo(a)anthracene	0.068 U	0.18	0.068	mg/kg	
50-32-8	Benzo(a)pyrene	0.060 U	0.18	0.060	mg/kg	
205-99-2	Benzo(b)fluoranthene	0.077 U	0.18	0.077	mg/kg	
191-24-2	Benzo(g,h,i)perylene	0.10 U	0.18	0.10	mg/kg	
207-08-9	Benzo(k)fluoranthene	0.084 U	0.18	0.084	mg/kg	
101-55-3	4-Bromophenyl phenyl ether	0.070 U	0.18	0.070	mg/kg	
85-68-7	Butyl benzyl phthalate	0.087 U	0.18	0.087	mg/kg	
100-51-6	Benzyl Alcohol	0.065 U	0.18	0.065	mg/kg	
91-58-7	2-Chloronaphthalene	0.051 U	0.18	0.051	mg/kg	
106-47-8	4-Chloroaniline	0.052 U	0.18	0.052	mg/kg	
86-74-8	Carbazole	0.079 U	0.18	0.079	mg/kg	
218-01-9	Chrysene	0.060 U	0.18	0.060	mg/kg	
111-91-1	bis(2-Chloroethoxy)methane	0.068 U	0.18	0.068	mg/kg	
111-44-4	bis(2-Chloroethyl)ether	0.039 U	0.18	0.039	mg/kg	

U = Not detected SDL - Sample Detection Limit

J = Indicates an estimated value

MQL = Method Quantitation Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 2 of 3

3
4

3

Client Sample ID:	FR-102	Date Sampled:	12/04/07
Lab Sample ID:	T19964-4	Date Received:	12/05/07
Matrix:	SO - Soil	Percent Solids:	89.1
Method:	SW846 8270C SW846 3550B		
Project:	Falcon Refinery Superfund Site/Ingleside, TX		

SW-846 8270C

CAS No.	Compound	Result	MQL	SDL	Units	Q
7005-72-3	4-Chlorophenyl phenyl ether	0.056 U	0.18	0.056	mg/kg	
95-50-1	1,2-Dichlorobenzene	0.062 U	0.18	0.062	mg/kg	
541-73-1	1,3-Dichlorobenzene	0.057 U	0.18	0.057	mg/kg	
106-46-7	1,4-Dichlorobenzene	0.051 U	0.18	0.051	mg/kg	
121-14-2	2,4-Dinitrotoluene	0.080 U	0.18	0.080	mg/kg	
606-20-2	2,6-Dinitrotoluene	0.047 U	0.18	0.047	mg/kg	
91-94-1	3,3'-Dichlorobenzidine	0.074 U	0.37	0.074	mg/kg	
57-97-6	7,12-Dimethylbenz(a)anthracene	0.18 U	0.18	0.18	mg/kg	
226-36-8	Dibenz(a,h)acridine	0.18 U	0.18	0.18	mg/kg	
53-70-3	Dibenzo(a,h)anthracene	0.064 U	0.18	0.064	mg/kg	
132-64-9	Dibenzofuran	0.050 U	0.18	0.050	mg/kg	
122-39-4	Diphenylamine	0.080 U	0.18	0.080	mg/kg	
84-74-2	Di-n-butyl phthalate	0.090 U	0.18	0.090	mg/kg	
117-84-0	Di-n-octyl phthalate	0.17 U	0.18	0.17	mg/kg	
84-66-2	Diethyl phthalate	0.051 U	0.18	0.051	mg/kg	
131-11-3	Dimethyl phthalate	0.045 U	0.18	0.045	mg/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	0.091 U	0.18	0.091	mg/kg	
206-44-0	Fluoranthene	0.082 U	0.18	0.082	mg/kg	
86-73-7	Fluorene	0.056 U	0.18	0.056	mg/kg	
118-74-1	Hexachlorobenzene	0.060 U	0.18	0.060	mg/kg	
87-68-3	Hexachlorobutadiene	0.056 U	0.18	0.056	mg/kg	
77-47-4	Hexachlorocyclopentadiene	0.066 U	0.18	0.066	mg/kg	
67-72-1	Hexachloroethane	0.054 U	0.18	0.054	mg/kg	
95-13-6	Indene	0.91 U	0.91	0.91	mg/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	0.071 U	0.18	0.071	mg/kg	
78-59-1	Isophorone	0.048 U	0.18	0.048	mg/kg	
90-12-0	1-Methylnaphthalene	0.044 U	0.18	0.044	mg/kg	
91-57-6	2-Methylnaphthalene	0.049 U	0.18	0.049	mg/kg	
	6-Methyl Chrysene	0.18 U	0.18	0.18	mg/kg	
88-74-4	2-Nitroaniline	0.048 U	0.18	0.048	mg/kg	
99-09-2	3-Nitroaniline	0.068 U	0.18	0.068	mg/kg	
100-01-6	4-Nitroaniline	0.10 U	0.18	0.10	mg/kg	
91-20-3	Naphthalene	0.044 U	0.18	0.044	mg/kg	
98-95-3	Nitrobenzene	0.051 U	0.18	0.051	mg/kg	
621-64-7	N-Nitroso-di-n-propylamine	0.074 U	0.18	0.074	mg/kg	
86-30-6	N-Nitrosodiphenylamine	0.080 U	0.18	0.080	mg/kg	
85-01-8	Phenanthrene	0.068 U	0.18	0.068	mg/kg	
129-00-0	Pyrene	0.089 U	0.18	0.089	mg/kg	
91-22-5	Quinoline	0.18 U	0.18	0.18	mg/kg	
120-82-1	1,2,4-Trichlorobenzene	0.048 U	0.18	0.048	mg/kg	

U = Not detected SDL - Sample Detection Limit

MQL = Method Quantitation Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 3 of 3

3
4

3

Client Sample ID:	FR-102	Date Sampled:	12/04/07
Lab Sample ID:	T19964-4	Date Received:	12/05/07
Matrix:	SO - Soil	Percent Solids:	89.1
Method:	SW846 8270C SW846 3550B		
Project:	Falcon Refinery Superfund Site/Ingleside, TX		

SW-846 8270C

CAS No.	Compound	Result	MQL	SDL	Units	Q
931-17-9	1,3&1,4-Cyclohexanediol	0.18 U	0.18	0.18	mg/kg	
	1,2-Cyclohexanediol	0.18 U	0.18	0.18	mg/kg	
98-85-1	1-Phenylethanol	0.18 U	0.18	0.18	mg/kg	
CAS No. Surrogate Recoveries Run# 1 Run# 2 Limits						
367-12-4	2-Fluorophenol	45%			26-124%	
4165-62-2	Phenol-d5	53%			19-106%	
118-79-6	2,4,6-Tribromophenol	87%			18-129%	
4165-60-0	Nitrobenzene-d5	52%			18-104%	
321-60-8	2-Fluorobiphenyl	61%			21-114%	
1718-51-0	Terphenyl-d14	99%			24-149%	

U = Not detected SDL - Sample Detection Limit
 MQL = Method Quantitation Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 1

34

3

Client Sample ID:	FR-102	Date Sampled:	12/04/07
Lab Sample ID:	T19964-4	Date Received:	12/05/07
Matrix:	SO - Soil	Percent Solids:	89.1
Project:	Falcon Refinery Superfund Site/Ingleside, TX		

Metals Analysis

Analyte	Result	MQL	SDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Aluminum	4830	21	4.7	mg/kg	1	12/10/07	12/11/07	NS	SW846 6010B ¹
Antimony	0.29 U	1.1	0.29	mg/kg	1	12/10/07	12/11/07	NS	SW846 6010B ¹
Arsenic	1.3	1.1	0.21	mg/kg	1	12/10/07	12/11/07	NS	SW846 6010B ¹
Barium	69.1	21	0.064	mg/kg	1	12/10/07	12/11/07	NS	SW846 6010B ¹
Beryllium	0.16 B	0.54	0.021	mg/kg	1	12/10/07	12/11/07	NS	SW846 6010B ¹
Cadmium	1.1	0.54	0.11	mg/kg	1	12/10/07	12/11/07	NS	SW846 6010B ¹
Calcium	11700	540	1.8	mg/kg	1	12/10/07	12/11/07	NS	SW846 6010B ¹
Chromium	3.7	1.1	0.075	mg/kg	1	12/10/07	12/11/07	NS	SW846 6010B ¹
Cobalt	1.2 B	5.4	0.19	mg/kg	1	12/10/07	12/11/07	NS	SW846 6010B ¹
Copper	4.8	2.7	0.14	mg/kg	1	12/10/07	12/11/07	NS	SW846 6010B ¹
Iron	3860	11	2.4	mg/kg	1	12/10/07	12/12/07	NS	SW846 6010B ³
Lead	9.2	1.1	0.43	mg/kg	1	12/10/07	12/11/07	NS	SW846 6010B ¹
Magnesium	1020	540	1.2	mg/kg	1	12/10/07	12/11/07	NS	SW846 6010B ¹
Manganese	65.6	1.6	0.075	mg/kg	1	12/10/07	12/11/07	NS	SW846 6010B ¹
Mercury	0.013 B	0.017	0.00068	mg/kg	1	12/12/07	12/12/07	NS	SW846 7471A ²
Nickel	2.0 B	4.3	0.14	mg/kg	1	12/10/07	12/11/07	NS	SW846 6010B ¹
Potassium	1040	540	33	mg/kg	1	12/10/07	12/11/07	NS	SW846 6010B ¹
Selenium	0.26 U	1.1	0.26	mg/kg	1	12/10/07	12/11/07	NS	SW846 6010B ¹
Silver	0.086 U	1.1	0.086	mg/kg	1	12/10/07	12/11/07	NS	SW846 6010B ¹
Sodium	108 B	540	29	mg/kg	1	12/10/07	12/11/07	NS	SW846 6010B ¹
Thallium	0.54 U	2.1	0.54	mg/kg	1	12/10/07	12/11/07	NS	SW846 6010B ¹
Vanadium	7.0	5.4	0.13	mg/kg	1	12/10/07	12/11/07	NS	SW846 6010B ¹
Zinc	85.3	2.1	0.43	mg/kg	1	12/10/07	12/11/07	NS	SW846 6010B ¹

- (1) Instrument QC Batch: MA3269
- (2) Instrument QC Batch: MA3272
- (3) Instrument QC Batch: MA3273
- (4) Prep QC Batch: MP7001
- (5) Prep QC Batch: MP7020

MQL = Method Quantitation Limit
 SDL = Sample Detection Limit

U = Indicates a result < SDL
 B = Indicates a result >= SDL but < MQL

Report of Analysis

Page 1 of 1

3
4
3

Client Sample ID:	FR-102	Date Sampled:	12/04/07
Lab Sample ID:	T19964-4	Date Received:	12/05/07
Matrix:	SO - Soil	Percent Solids:	89.1
Project:	Falcon Refinery Superfund Site/Ingleside, TX		

General Chemistry

Analyte	Result	MQL	SDL	Units	DF	Analyzed	By	Method
Chromium, Hexavalent ^a	1.1 U	2.2	1.1	mg/kg	1	12/21/07	AFL	SW846 3060A/7196A
Solids, Percent	89.1			%	1	12/12/07	TW	EPA 160.3 M

(a) Analysis performed at Accutest Laboratories, Orlando, FL.

MQL = Method Quantitation Limit
 SDL = Sample Detection Limit

U = Indicates a result < SDL
 B = Indicates a result >= SDL but < MQL

Report of Analysis

Page 1 of 2

35

3

Client Sample ID: FR-103
Lab Sample ID: T19964-5
Matrix: SO - Soil
Method: SW846 8260B
Project: Falcon Refinery Superfund Site/Ingleside, TX

Date Sampled: 12/04/07
Date Received: 12/05/07
Percent Solids: 85.4

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M0001123.D	1	12/10/07	LJ	n/a	n/a	VM47
Run #2							

	Initial Weight	Final Volume
Run #1	5.29 g	5.0 ml
Run #2		

SW-846 8260B

CAS No.	Compound	Result	MQL	SDL	Units	Q
67-64-1	Acetone	0.0082	0.055	0.0080	mg/kg	J
71-43-2	Benzene	0.0015 U	0.0055	0.0015	mg/kg	
108-86-1	Bromobenzene	0.0014 U	0.0055	0.0014	mg/kg	
74-97-5	Bromochloromethane	0.0016 U	0.0055	0.0016	mg/kg	
75-27-4	Bromodichloromethane	0.0016 U	0.0055	0.0016	mg/kg	
75-25-2	Bromoform	0.0014 U	0.0055	0.0014	mg/kg	
71-36-3	n-Butyl Alcohol	0.055 U	0.055	0.055	mg/kg	
104-51-8	n-Butylbenzene	0.0011 U	0.0055	0.0011	mg/kg	
98-06-6	tert-Butylbenzene	0.0011 U	0.0055	0.0011	mg/kg	
108-90-7	Chlorobenzene	0.0015 U	0.0055	0.0015	mg/kg	
75-00-3	Chloroethane	0.0016 U	0.0055	0.0016	mg/kg	
67-66-3	Chloroform	0.0014 U	0.0055	0.0014	mg/kg	
95-49-8	o-Chlorotoluene	0.0013 U	0.0055	0.0013	mg/kg	
106-43-4	p-Chlorotoluene	0.0013 U	0.0055	0.0013	mg/kg	
75-15-0	Carbon disulfide	0.0014 U	0.011	0.0014	mg/kg	
56-23-5	Carbon tetrachloride	0.0012 U	0.0055	0.0012	mg/kg	
110-82-7	Cyclohexane	0.0013 U	0.0055	0.0013	mg/kg	
75-34-3	1,1-Dichloroethane	0.0014 U	0.0055	0.0014	mg/kg	
75-35-4	1,1-Dichloroethylene	0.0014 U	0.0055	0.0014	mg/kg	
563-58-6	1,1-Dichloropropene	0.0013 U	0.0055	0.0013	mg/kg	
96-12-8	1,2-Dibromo-3-chloropropane	0.0016 U	0.0055	0.0016	mg/kg	
106-93-4	1,2-Dibromoethane	0.0015 U	0.0055	0.0015	mg/kg	
107-06-2	1,2-Dichloroethane	0.0015 U	0.0055	0.0015	mg/kg	
78-87-5	1,2-Dichloropropane	0.0016 U	0.0055	0.0016	mg/kg	
142-28-9	1,3-Dichloropropane	0.0016 U	0.0055	0.0016	mg/kg	
123-91-1	1,4-Dioxane	0.026 U	0.28	0.026	mg/kg	
594-20-7	2,2-Dichloropropane	0.0012 U	0.0055	0.0012	mg/kg	
124-48-1	Dibromochloromethane	0.0015 U	0.0055	0.0015	mg/kg	
75-71-8	Dichlorodifluoromethane	0.0012 U	0.0055	0.0012	mg/kg	
156-59-2	cis-1,2-Dichloroethylene	0.0015 U	0.0055	0.0015	mg/kg	
10061-01-5	cis-1,3-Dichloropropene	0.0014 U	0.0055	0.0014	mg/kg	
156-60-5	trans-1,2-Dichloroethylene	0.0014 U	0.0055	0.0014	mg/kg	

U = Not detected SDL - Sample Detection Limit

J = Indicates an estimated value

MQL = Method Quantitation Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 2 of 2

35

3

Client Sample ID:	FR-103	Date Sampled:	12/04/07
Lab Sample ID:	T19964-5	Date Received:	12/05/07
Matrix:	SO - Soil	Percent Solids:	85.4
Method:	SW846 8260B	Falcon Refinery Superfund Site/Ingleside, TX	
Project:			

SW-846 8260B

CAS No.	Compound	Result	MQL	SDL	Units	Q
10061-02-6	trans-1,3-Dichloropropene	0.0015 U	0.0055	0.0015	mg/kg	
100-41-4	Ethylbenzene	0.0014 U	0.0055	0.0014	mg/kg	
60-29-7	Ethyl Ether	0.0055 U	0.0055	0.0055	mg/kg	
110-54-3	Hexane	0.0012 U	0.0055	0.0012	mg/kg	
591-78-6	2-Hexanone	0.0076 U	0.055	0.0076	mg/kg	
87-68-3	Hexachlorobutadiene	0.0013 U	0.0055	0.0013	mg/kg	
98-82-8	Isopropylbenzene	0.0013 U	0.0055	0.0013	mg/kg	
99-87-6	p-Isopropyltoluene	0.0013 U	0.0055	0.0013	mg/kg	
108-10-1	4-Methyl-2-pentanone	0.0077 U	0.055	0.0077	mg/kg	
74-83-9	Methyl bromide	0.0017 U	0.0055	0.0017	mg/kg	
74-87-3	Methyl chloride	0.0016 U	0.0055	0.0016	mg/kg	
74-95-3	Methylene bromide	0.0022 U	0.0055	0.0022	mg/kg	
75-09-2	Methylene chloride	0.0027 U	0.011	0.0027	mg/kg	
78-93-3	Methyl ethyl ketone	0.0075 U	0.055	0.0075	mg/kg	
103-65-1	n-Propylbenzene	0.0012 U	0.0055	0.0012	mg/kg	
100-42-5	Styrene	0.0014 U	0.0055	0.0014	mg/kg	
630-20-6	1,1,1,2-Tetrachloroethane	0.0015 U	0.0055	0.0015	mg/kg	
71-55-6	1,1,1-Trichloroethane	0.0013 U	0.0055	0.0013	mg/kg	
79-34-5	1,1,2,2-Tetrachloroethane	0.0016 U	0.0055	0.0016	mg/kg	
79-00-5	1,1,2-Trichloroethane	0.0015 U	0.0055	0.0015	mg/kg	
87-61-6	1,2,3-Trichlorobenzene	0.0013 U	0.0055	0.0013	mg/kg	
96-18-4	1,2,3-Trichloropropane	0.0015 U	0.0055	0.0015	mg/kg	
120-82-1	1,2,4-Trichlorobenzene	0.0011 U	0.0055	0.0011	mg/kg	
95-63-6	1,2,4-Trimethylbenzene	0.0012 U	0.0055	0.0012	mg/kg	
108-67-8	1,3,5-Trimethylbenzene	0.0012 U	0.0055	0.0012	mg/kg	
127-18-4	Tetrachloroethylene	0.0015 U	0.0055	0.0015	mg/kg	
108-88-3	Toluene	0.0014 U	0.0055	0.0014	mg/kg	
79-01-6	Trichloroethylene	0.0014 U	0.0055	0.0014	mg/kg	
75-69-4	Trichlorofluoromethane	0.0011 U	0.0055	0.0011	mg/kg	
75-01-4	Vinyl chloride	0.0015 U	0.0055	0.0015	mg/kg	
108-05-4	Vinyl Acetate	0.0084 U	0.028	0.0084	mg/kg	
1330-20-7	Xylene (total)	0.0042 U	0.017	0.0042	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	108%		68-127%
2037-26-5	Toluene-D8	123%		76-139%
460-00-4	4-Bromofluorobenzene	120%		68-167%
17060-07-0	1,2-Dichloroethane-D4	99%		56-121%

U = Not detected

SDL - Sample Detection Limit

MQL = Method Quantitation Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 3

35

3

Client Sample ID:	FR-103	Date Sampled:	12/04/07
Lab Sample ID:	T19964-5	Date Received:	12/05/07
Matrix:	SO - Soil	Percent Solids:	85.4
Method:	SW846 8270C SW846 3550B		
Project:	Falcon Refinery Superfund Site/Ingleside, TX		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	A24808.D	1	12/11/07	SC	12/07/07	OP8652	EA1540

Run #1	Initial Weight	Final Volume
Run #1	30.3 g	1.0 ml
Run #2		

SW-846 8270C

CAS No.	Compound	Result	MQL	SDL	Units	Q
108-98-5	Benzene-thiol	0.19 U	0.19	0.19	mg/kg	
65-85-0	Benzoic acid	0.048 U	0.97	0.048	mg/kg	
95-57-8	2-Chlorophenol	0.060 U	0.19	0.060	mg/kg	
59-50-7	4-Chloro-3-methyl phenol	0.044 U	0.19	0.044	mg/kg	
120-83-2	2,4-Dichlorophenol	0.065 U	0.19	0.065	mg/kg	
105-67-9	2,4-Dimethylphenol	0.061 U	0.19	0.061	mg/kg	
51-28-5	2,4-Dinitrophenol	0.065 U	0.97	0.065	mg/kg	
534-52-1	4,6-Dinitro-o-cresol	0.12 U	0.39	0.12	mg/kg	
95-48-7	2-Methylphenol	0.042 U	0.19	0.042	mg/kg	
	3&4-Methylphenol	0.063 U	0.19	0.063	mg/kg	
100-02-7	4-Nitrophenol	0.076 U	0.19	0.076	mg/kg	
87-86-5	Pentachlorophenol	0.051 U	0.97	0.051	mg/kg	
108-95-2	Phenol	0.078 U	0.19	0.078	mg/kg	
95-95-4	2,4,5-Trichlorophenol	0.054 U	0.19	0.054	mg/kg	
88-06-2	2,4,6-Trichlorophenol	0.052 U	0.19	0.052	mg/kg	
83-32-9	Acenaphthene	0.047 U	0.19	0.047	mg/kg	
208-96-8	Acenaphthylene	0.052 U	0.19	0.052	mg/kg	
120-12-7	Anthracene	0.063 U	0.19	0.063	mg/kg	
56-55-3	Benzo(a)anthracene	0.072 U	0.19	0.072	mg/kg	
50-32-8	Benzo(a)pyrene	0.063 U	0.19	0.063	mg/kg	
205-99-2	Benzo(b)fluoranthene	0.082 U	0.19	0.082	mg/kg	
191-24-2	Benzo(g,h,i)perylene	0.11 U	0.19	0.11	mg/kg	
207-08-9	Benzo(k)fluoranthene	0.089 U	0.19	0.089	mg/kg	
101-55-3	4-Bromophenyl phenyl ether	0.074 U	0.19	0.074	mg/kg	
85-68-7	Butyl benzyl phthalate	0.092 U	0.19	0.092	mg/kg	
100-51-6	Benzyl Alcohol	0.068 U	0.19	0.068	mg/kg	
91-58-7	2-Chloronaphthalene	0.054 U	0.19	0.054	mg/kg	
106-47-8	4-Chloroaniline	0.054 U	0.19	0.054	mg/kg	
86-74-8	Carbazole	0.083 U	0.19	0.083	mg/kg	
218-01-9	Chrysene	0.063 U	0.19	0.063	mg/kg	
111-91-1	bis(2-Chloroethoxy)methane	0.072 U	0.19	0.072	mg/kg	
111-44-4	bis(2-Chloroethyl)ether	0.041 U	0.19	0.041	mg/kg	

U = Not detected SDL - Sample Detection Limit

J = Indicates an estimated value

MQL = Method Quantitation Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	FR-103	Date Sampled:	12/04/07
Lab Sample ID:	T19964-5	Date Received:	12/05/07
Matrix:	SO - Soil	Percent Solids:	85.4
Method:	SW846 8270C SW846 3550B		
Project:	Falcon Refinery Superfund Site/Ingleside, TX		

SW-846 8270C

CAS No.	Compound	Result	MQL	SDL	Units	Q
7005-72-3	4-Chlorophenyl phenyl ether	0.059 U	0.19	0.059	mg/kg	
95-50-1	1,2-Dichlorobenzene	0.066 U	0.19	0.066	mg/kg	
541-73-1	1,3-Dichlorobenzene	0.060 U	0.19	0.060	mg/kg	
106-46-7	1,4-Dichlorobenzene	0.054 U	0.19	0.054	mg/kg	
121-14-2	2,4-Dinitrotoluene	0.085 U	0.19	0.085	mg/kg	
606-20-2	2,6-Dinitrotoluene	0.050 U	0.19	0.050	mg/kg	
91-94-1	3,3'-Dichlorobenzidine	0.078 U	0.39	0.078	mg/kg	
57-97-6	7,12-Dimethylbenz(a)anthracene	0.19 U	0.19	0.19	mg/kg	
226-36-8	Dibenz(a,h)acridine	0.19 U	0.19	0.19	mg/kg	
53-70-3	Dibenzo(a,h)anthracene	0.067 U	0.19	0.067	mg/kg	
132-64-9	Dibenzofuran	0.053 U	0.19	0.053	mg/kg	
122-39-4	Diphenylamine	0.085 U	0.19	0.085	mg/kg	
84-74-2	Di-n-butyl phthalate	0.095 U	0.19	0.095	mg/kg	
117-84-0	Di-n-octyl phthalate	0.18 U	0.19	0.18	mg/kg	
84-66-2	Diethyl phthalate	0.0952	0.19	0.054	mg/kg	J
131-11-3	Dimethyl phthalate	0.048 U	0.19	0.048	mg/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	0.096 U	0.19	0.096	mg/kg	
206-44-0	Fluoranthene	0.087 U	0.19	0.087	mg/kg	
86-73-7	Fluorene	0.059 U	0.19	0.059	mg/kg	
118-74-1	Hexachlorobenzene	0.063 U	0.19	0.063	mg/kg	
87-68-3	Hexachlorobutadiene	0.059 U	0.19	0.059	mg/kg	
77-47-4	Hexachlorocyclopentadiene	0.070 U	0.19	0.070	mg/kg	
67-72-1	Hexachloroethane	0.057 U	0.19	0.057	mg/kg	
95-13-6	Indene	0.97 U	0.97	0.97	mg/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	0.075 U	0.19	0.075	mg/kg	
78-59-1	Isophorone	0.051 U	0.19	0.051	mg/kg	
90-12-0	1-Methylnaphthalene	0.046 U	0.19	0.046	mg/kg	
91-57-6	2-Methylnaphthalene	0.051 U	0.19	0.051	mg/kg	
	6-Methyl Chrysene	0.19 U	0.19	0.19	mg/kg	
88-74-4	2-Nitroaniline	0.050 U	0.19	0.050	mg/kg	
99-09-2	3-Nitroaniline	0.072 U	0.19	0.072	mg/kg	
100-01-6	4-Nitroaniline	0.11 U	0.19	0.11	mg/kg	
91-20-3	Naphthalene	0.047 U	0.19	0.047	mg/kg	
98-95-3	Nitrobenzene	0.054 U	0.19	0.054	mg/kg	
621-64-7	N-Nitroso-di-n-propylamine	0.078 U	0.19	0.078	mg/kg	
86-30-6	N-Nitrosodiphenylamine	0.085 U	0.19	0.085	mg/kg	
85-01-8	Phenanthrene	0.072 U	0.19	0.072	mg/kg	
129-00-0	Pyrene	0.094 U	0.19	0.094	mg/kg	
91-22-5	Quinoline	0.19 U	0.19	0.19	mg/kg	
120-82-1	1,2,4-Trichlorobenzene	0.051 U	0.19	0.051	mg/kg	

U = Not detected SDL - Sample Detection Limit

MQL = Method Quantitation Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 3 of 3

353

3

Client Sample ID:	FR-103	Date Sampled:	12/04/07
Lab Sample ID:	T19964-5	Date Received:	12/05/07
Matrix:	SO - Soil	Percent Solids:	85.4
Method:	SW846 8270C SW846 3550B		
Project:	Falcon Refinery Superfund Site/Ingleside, TX		

SW-846 8270C

CAS No.	Compound	Result	MQL	SDL	Units	Q
931-17-9	1,3&1,4-Cyclohexanediol	0.19 U	0.19	0.19	mg/kg	
	1,2-Cyclohexanediol	0.19 U	0.19	0.19	mg/kg	
98-85-1	1-Phenylethanol	0.19 U	0.19	0.19	mg/kg	
CAS No. Surrogate Recoveries Run# 1 Run# 2 Limits						
367-12-4	2-Fluorophenol	34%			26-124%	
4165-62-2	Phenol-d5	40%			19-106%	
118-79-6	2,4,6-Tribromophenol	47%			18-129%	
4165-60-0	Nitrobenzene-d5	42%			18-104%	
321-60-8	2-Fluorobiphenyl	48%			21-114%	
1718-51-0	Terphenyl-d14	64%			24-149%	

U = Not detected SDL - Sample Detection Limit
 MQL = Method Quantitation Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 1

35

3

Client Sample ID:	FR-103	Date Sampled:	12/04/07
Lab Sample ID:	T19964-5	Date Received:	12/05/07
Matrix:	SO - Soil	Percent Solids:	85.4
Project:	Falcon Refinery Superfund Site/Ingleside, TX		

Metals Analysis

Analyte	Result	MQL	SDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Aluminum	2480	22	4.8	mg/kg	1	12/10/07	12/11/07	NS	SW846 6010B ¹
Antimony	0.29 U	1.1	0.29	mg/kg	1	12/10/07	12/11/07	NS	SW846 6010B ¹
Arsenic	1.7	1.1	0.22	mg/kg	1	12/10/07	12/11/07	NS	SW846 6010B ¹
Barium	26.4	22	0.065	mg/kg	1	12/10/07	12/11/07	NS	SW846 6010B ¹
Beryllium	0.067 B	0.54	0.022	mg/kg	1	12/10/07	12/11/07	NS	SW846 6010B ¹
Cadmium	0.11 U	0.54	0.11	mg/kg	1	12/10/07	12/11/07	NS	SW846 6010B ¹
Calcium	12700	540	1.9	mg/kg	1	12/10/07	12/11/07	NS	SW846 6010B ¹
Chromium	2.2	1.1	0.076	mg/kg	1	12/10/07	12/11/07	NS	SW846 6010B ¹
Cobalt	0.78 B	5.4	0.20	mg/kg	1	12/10/07	12/11/07	NS	SW846 6010B ¹
Copper	1.9 B	2.7	0.14	mg/kg	1	12/10/07	12/11/07	NS	SW846 6010B ¹
Iron	1780	11	2.4	mg/kg	1	12/10/07	12/12/07	NS	SW846 6010B ³
Lead	6.3	1.1	0.43	mg/kg	1	12/10/07	12/11/07	NS	SW846 6010B ¹
Magnesium	3900	540	1.2	mg/kg	1	12/10/07	12/11/07	NS	SW846 6010B ¹
Manganese	134	1.6	0.076	mg/kg	1	12/10/07	12/11/07	NS	SW846 6010B ¹
Mercury	0.0053 B	0.019	0.00076	mg/kg	1	12/12/07	12/12/07	NS	SW846 7471A ²
Nickel	0.99 B	4.3	0.14	mg/kg	1	12/10/07	12/11/07	NS	SW846 6010B ¹
Potassium	573	540	34	mg/kg	1	12/10/07	12/11/07	NS	SW846 6010B ¹
Selenium	0.26 U	1.1	0.26	mg/kg	1	12/10/07	12/11/07	NS	SW846 6010B ¹
Silver	0.087 U	1.1	0.087	mg/kg	1	12/10/07	12/11/07	NS	SW846 6010B ¹
Sodium	353 B	540	29	mg/kg	1	12/10/07	12/11/07	NS	SW846 6010B ¹
Thallium	0.54 U	2.2	0.54	mg/kg	1	12/10/07	12/11/07	NS	SW846 6010B ¹
Vanadium	4.3 B	5.4	0.13	mg/kg	1	12/10/07	12/11/07	NS	SW846 6010B ¹
Zinc	6.7	2.2	0.43	mg/kg	1	12/10/07	12/11/07	NS	SW846 6010B ¹

- (1) Instrument QC Batch: MA3269
- (2) Instrument QC Batch: MA3272
- (3) Instrument QC Batch: MA3273
- (4) Prep QC Batch: MP7001
- (5) Prep QC Batch: MP7020

MQL = Method Quantitation Limit
 SDL = Sample Detection Limit

U = Indicates a result < SDL
 B = Indicates a result >= SDL but < MQL

Report of Analysis

Page 1 of 1

35

3

Client Sample ID:	FR-103	Date Sampled:	12/04/07
Lab Sample ID:	T19964-5	Date Received:	12/05/07
Matrix:	SO - Soil	Percent Solids:	85.4
Project:	Falcon Refinery Superfund Site/Ingleside, TX		

General Chemistry

Analyte	Result	MQL	SDL	Units	DF	Analyzed	By	Method
Chromium, Hexavalent ^a	1.2 U	2.3	1.2	mg/kg	1	12/21/07	AFL	SW846 3060A/7196A
Solids, Percent	85.4			%	1	12/12/07	TW	EPA 160.3 M

(a) Analysis performed at Accutest Laboratories, Orlando, FL.

MQL = Method Quantitation Limit
 SDL = Sample Detection Limit

U = Indicates a result < SDL
 B = Indicates a result >= SDL but < MQL

Report of Analysis

Page 1 of 2

3

3

Client Sample ID: FR-104
Lab Sample ID: T19964-6
Matrix: AQ - Water
Method: SW846 8260B
Project: Falcon Refinery Superfund Site/Ingleside, TX

Date Sampled: 12/04/07
Date Received: 12/05/07
Percent Solids: n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	F0088670.D	1	12/09/07	ZLH	n/a	n/a	VF2797
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

SW-846 8260B

CAS No.	Compound	Result	MQL	SDL	Units	Q
67-64-1	Acetone	0.0026 U	0.050	0.0026	mg/l	
71-43-2	Benzene	0.00046 U	0.0020	0.00046	mg/l	
108-86-1	Bromobenzene	0.00042 U	0.0020	0.00042	mg/l	
74-97-5	Bromochloromethane	0.00049 U	0.0020	0.00049	mg/l	
75-27-4	Bromodichloromethane	0.00042 U	0.0020	0.00042	mg/l	
75-25-2	Bromoform	0.0014 U	0.0020	0.0014	mg/l	
71-36-3	n-Butyl Alcohol	0.020 U	0.020	0.020	mg/l	
104-51-8	n-Butylbenzene	0.00055 U	0.0020	0.00055	mg/l	
98-06-6	tert-Butylbenzene	0.00083 U	0.0020	0.00083	mg/l	
108-90-7	Chlorobenzene	0.00042 U	0.0020	0.00042	mg/l	
75-00-3	Chloroethane	0.00039 U	0.0020	0.00039	mg/l	
67-66-3	Chloroform	0.00054 U	0.0020	0.00054	mg/l	
95-49-8	o-Chlorotoluene	0.00038 U	0.0020	0.00038	mg/l	
106-43-4	p-Chlorotoluene	0.00050 U	0.0020	0.00050	mg/l	
75-15-0	Carbon disulfide	0.00051 U	0.0020	0.00051	mg/l	
56-23-5	Carbon tetrachloride	0.00045 U	0.0020	0.00045	mg/l	
110-82-7	Cyclohexane	0.00053 U	0.0020	0.00053	mg/l	
75-34-3	1,1-Dichloroethane	0.00041 U	0.0020	0.00041	mg/l	
75-35-4	1,1-Dichloroethylene	0.00048 U	0.0020	0.00048	mg/l	
563-58-6	1,1-Dichloropropene	0.00035 U	0.0020	0.00035	mg/l	
96-12-8	1,2-Dibromo-3-chloropropane	0.0011 U	0.0020	0.0011	mg/l	
106-93-4	1,2-Dibromoethane	0.00047 U	0.0020	0.00047	mg/l	
107-06-2	1,2-Dichloroethane	0.00050 U	0.0020	0.00050	mg/l	
78-87-5	1,2-Dichloropropane	0.00053 U	0.0020	0.00053	mg/l	
142-28-9	1,3-Dichloropropane	0.00041 U	0.0020	0.00041	mg/l	
123-91-1	1,4-Dioxane	0.13 U	0.25	0.13	mg/l	
594-20-7	2,2-Dichloropropane	0.00058 U	0.0020	0.00058	mg/l	
124-48-1	Dibromochloromethane	0.00046 U	0.0020	0.00046	mg/l	
75-71-8	Dichlorodifluoromethane	0.00053 U	0.0020	0.00053	mg/l	
156-59-2	cis-1,2-Dichloroethylene	0.00043 U	0.0020	0.00043	mg/l	
10061-01-5	cis-1,3-Dichloropropene	0.00053 U	0.0020	0.00053	mg/l	
156-60-5	trans-1,2-Dichloroethylene	0.00046 U	0.0020	0.00046	mg/l	

U = Not detected SDL - Sample Detection Limit

J = Indicates an estimated value

MQL = Method Quantitation Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 2 of 2

36

3

Client Sample ID:	FR-104	Date Sampled:	12/04/07
Lab Sample ID:	T19964-6	Date Received:	12/05/07
Matrix:	AQ - Water	Percent Solids:	n/a
Method:	SW846 8260B	Project: Falcon Refinery Superfund Site/Ingleside, TX	

SW-846 8260B

CAS No.	Compound	Result	MQL	SDL	Units	Q
10061-02-6	trans-1,3-Dichloropropene	0.00036 U	0.0020	0.00036	mg/l	
100-41-4	Ethylbenzene	0.00045 U	0.0020	0.00045	mg/l	
60-29-7	Ethyl Ether	0.0020 U	0.0020	0.0020	mg/l	
110-54-3	hexane	0.00061 U	0.0020	0.00061	mg/l	
591-78-6	2-Hexanone	0.0024 U	0.010	0.0024	mg/l	
87-68-3	Hexachlorobutadiene	0.0012 U	0.0020	0.0012	mg/l	
98-82-8	Isopropylbenzene	0.00041 U	0.0020	0.00041	mg/l	
99-87-6	p-Isopropyltoluene	0.00040 U	0.0020	0.00040	mg/l	
108-10-1	4-Methyl-2-pentanone	0.0025 U	0.010	0.0025	mg/l	
74-83-9	Methyl bromide	0.00054 U	0.0020	0.00054	mg/l	
74-87-3	Methyl chloride	0.00042 U	0.0020	0.00042	mg/l	
74-95-3	Methylene bromide	0.00041 U	0.0020	0.00041	mg/l	
75-09-2	Methylene chloride	0.00041 U	0.0050	0.00041	mg/l	
78-93-3	Methyl ethyl ketone	0.0025 U	0.010	0.0025	mg/l	
103-65-1	n-Propylbenzene	0.00051 U	0.0020	0.00051	mg/l	
100-42-5	Styrene	0.00035 U	0.0020	0.00035	mg/l	
630-20-6	1,1,1,2-Tetrachloroethane	0.00037 U	0.0020	0.00037	mg/l	
71-55-6	1,1,1-Trichloroethane	0.00047 U	0.0020	0.00047	mg/l	
79-34-5	1,1,2,2-Tetrachloroethane	0.00042 U	0.0020	0.00042	mg/l	
79-00-5	1,1,2-Trichloroethane	0.00044 U	0.0020	0.00044	mg/l	
87-61-6	1,2,3-Trichlorobenzene	0.00043 U	0.0020	0.00043	mg/l	
96-18-4	1,2,3-Trichloropropane	0.00069 U	0.0020	0.00069	mg/l	
120-82-1	1,2,4-Trichlorobenzene	0.00053 U	0.0020	0.00053	mg/l	
95-63-6	1,2,4-Trimethylbenzene	0.00046 U	0.0020	0.00046	mg/l	
108-67-8	1,3,5-Trimethylbenzene	0.00044 U	0.0020	0.00044	mg/l	
127-18-4	Tetrachloroethylene	0.00050 U	0.0020	0.00050	mg/l	
108-88-3	Toluene	0.00048 U	0.0020	0.00048	mg/l	
79-01-6	Trichloroethylene	0.00047 U	0.0020	0.00047	mg/l	
75-69-4	Trichlorofluoromethane	0.00047 U	0.0020	0.00047	mg/l	
75-01-4	Vinyl chloride	0.00042 U	0.0020	0.00042	mg/l	
108-05-4	Vinyl Acetate	0.0023 U	0.010	0.0023	mg/l	
1330-20-7	Xylene (total)	0.0060 U	0.0060		mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	98%		76-125%
17060-07-0	1,2-Dichloroethane-D4	104%		69-128%
2037-26-5	Toluene-D8	103%		80-121%
460-00-4	4-Bromofluorobenzene	112%		69-142%

U = Not detected SDL - Sample Detection Limit

J = Indicates an estimated value

MQL = Method Quantitation Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 3

3

3

Client Sample ID:	FR-104	Date Sampled:	12/04/07
Lab Sample ID:	T19964-6	Date Received:	12/05/07
Matrix:	AQ - Water	Percent Solids:	n/a
Method:	SW846 8270C SW846 3510C		
Project:	Falcon Refinery Superfund Site/Ingleside, TX		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
	H24668.D	1	12/09/07	SC	12/08/07	OP8660	EH1386
Run #2							

Run #1	Initial Volume	Final Volume
	1000 ml	1.0 ml
Run #2		

SW-846 8270C

CAS No.	Compound	Result	MQL	SDL	Units	Q
108-98-5	Benzenethiol	0.010 U	0.010	0.010	mg/l	
65-85-0	Benzoic Acid	0.00058 U	0.010	0.00058	mg/l	
95-57-8	2-Chlorophenol	0.0014 U	0.0050	0.0014	mg/l	
59-50-7	4-Chloro-3-methyl phenol	0.0012 U	0.0050	0.0012	mg/l	
120-83-2	2,4-Dichlorophenol	0.0018 U	0.0050	0.0018	mg/l	
105-67-9	2,4-Dimethylphenol	0.0026 U	0.0050	0.0026	mg/l	
51-28-5	2,4-Dinitrophenol	0.0024 U	0.025	0.0024	mg/l	
534-52-1	4,6-Dinitro-o-cresol	0.0039 U	0.010	0.0039	mg/l	
95-48-7	2-Methylphenol	0.0012 U	0.0050	0.0012	mg/l	
	3&4-Methylphenol	0.0011 U	0.0050	0.0011	mg/l	
100-02-7	4-Nitrophenol	0.0017 U	0.025	0.0017	mg/l	
87-86-5	Pentachlorophenol	0.0040 U	0.025	0.0040	mg/l	
108-95-2	Phenol	0.00052 U	0.0050	0.00052	mg/l	
95-95-4	2,4,5-Trichlorophenol	0.0018 U	0.0050	0.0018	mg/l	
88-06-2	2,4,6-Trichlorophenol	0.0015 U	0.0050	0.0015	mg/l	
83-32-9	Acenaphthene	0.0015 U	0.0050	0.0015	mg/l	
208-96-8	Acenaphthylene	0.0016 U	0.0050	0.0016	mg/l	
120-12-7	Anthracene	0.0018 U	0.0050	0.0018	mg/l	
191-24-2	Benzo(g,h,i)perylene	0.0025 U	0.0050	0.0025	mg/l	
101-55-3	4-Bromophenyl phenyl ether	0.0021 U	0.0050	0.0021	mg/l	
85-68-7	Butyl benzyl phthalate	0.0017 U	0.0050	0.0017	mg/l	
100-51-6	Benzyl Alcohol	0.0019 U	0.0050	0.0019	mg/l	
91-58-7	2-Chloronaphthalene	0.0012 U	0.0050	0.0012	mg/l	
106-47-8	4-Chloroaniline	0.0016 U	0.0050	0.0016	mg/l	
86-74-8	Carbazole	0.0017 U	0.0050	0.0017	mg/l	
218-01-9	Chrysene	0.0013 U	0.0050	0.0013	mg/l	
111-91-1	bis(2-Chloroethoxy)methane	0.0016 U	0.0050	0.0016	mg/l	
111-44-4	bis(2-Chloroethyl)ether	0.0012 U	0.0050	0.0012	mg/l	
7005-72-3	4-Chlorophenyl phenyl ether	0.0015 U	0.0050	0.0015	mg/l	
95-50-1	1,2-Dichlorobenzene	0.0016 U	0.0050	0.0016	mg/l	
541-73-1	1,3-Dichlorobenzene	0.0016 U	0.0050	0.0016	mg/l	
106-46-7	1,4-Dichlorobenzene	0.0015 U	0.0050	0.0015	mg/l	

U = Not detected SDL - Sample Detection Limit

J = Indicates an estimated value

MQL = Method Quantitation Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	FR-104	Date Sampled:	12/04/07
Lab Sample ID:	T19964-6	Date Received:	12/05/07
Matrix:	AQ - Water	Percent Solids:	n/a
Method:	SW846 8270C SW846 3510C		
Project:	Falcon Refinery Superfund Site/Ingleside, TX		

SW-846 8270C

CAS No.	Compound	Result	MQL	SDL	Units	Q
121-14-2	2,4-Dinitrotoluene	0.0024 U	0.0050	0.0024	mg/l	
606-20-2	2,6-Dinitrotoluene	0.0017 U	0.0050	0.0017	mg/l	
91-94-1	3,3'-Dichlorobenzidine	0.0037 U	0.010	0.0037	mg/l	
57-97-6	7,12-Dimethylbenz(a)anthracene	0.0050 U	0.0050	0.0050	mg/l	
226-36-8	Dibenz(a,h)acridine	0.0010 U	0.0050	0.0010	mg/l	
53-70-3	Dibenzo(a,h)anthracene	0.0013 U	0.0050	0.0013	mg/l	
132-64-9	Dibenzofuran	0.0023 U	0.0050	0.0023	mg/l	
122-39-4	Diphenylamine	0.0019 U	0.0050	0.0019	mg/l	
84-74-2	Di-n-butyl phthalate	0.0063	0.0050	0.0016	mg/l	
117-84-0	Di-n-octyl phthalate	0.0013 U	0.0050	0.0013	mg/l	
84-66-2	Diethyl phthalate	0.0011 U	0.0050	0.0011	mg/l	
131-11-3	Dimethyl phthalate	0.0018 U	0.0050	0.0018	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	0.0015 U	0.0050	0.0015	mg/l	
206-44-0	Fluoranthene	0.0016 U	0.0050	0.0016	mg/l	
86-73-7	Fluorene	0.0021 U	0.0050	0.0021	mg/l	
118-74-1	Hexachlorobenzene	0.0019 U	0.0050	0.0019	mg/l	
87-68-3	Hexachlorobutadiene	0.0019 U	0.0050	0.0019	mg/l	
77-47-4	Hexachlorocyclopentadiene	0.0014 U	0.0050	0.0014	mg/l	
67-72-1	Hexachloroethane	0.0017 U	0.0050	0.0017	mg/l	
95-13-6	Indene	0.014 U	0.015	0.014	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	0.0024 U	0.0050	0.0024	mg/l	
78-59-1	Isophorone	0.0012 U	0.0050	0.0012	mg/l	
90-12-0	1-Methylnaphthalene	0.0017 U	0.0050	0.0017	mg/l	
91-57-6	2-Methylnaphthalene	0.0020 U	0.0050	0.0020	mg/l	
	6-Methyl Chrysene	0.0050 U	0.0050	0.0050	mg/l	
88-74-4	2-Nitroaniline	0.0021 U	0.0050	0.0021	mg/l	
99-09-2	3-Nitroaniline	0.0027 U	0.0050	0.0027	mg/l	
100-01-6	4-Nitroaniline	0.0050 U	0.0050	0.0050	mg/l	
91-20-3	Naphthalene	0.0015 U	0.0050	0.0015	mg/l	
98-95-3	Nitrobenzene	0.0014 U	0.0050	0.0014	mg/l	
621-64-7	N-Nitroso-di-n-propylamine	0.0017 U	0.0050	0.0017	mg/l	
86-30-6	N-Nitrosodiphenylamine	0.0019 U	0.0050	0.0019	mg/l	
85-01-8	Phenanthrene	0.0016 U	0.0050	0.0016	mg/l	
129-00-0	Pyrene	0.0011 U	0.0050	0.0011	mg/l	
91-22-5	Quinoline	0.0010 U	0.0050	0.0010	mg/l	
120-82-1	1,2,4-Trichlorobenzene	0.0010 U	0.0050	0.0010	mg/l	
98-85-1	1-Phenylethanol	0.0050 U	0.0050	0.0050	mg/l	
931-17-9	1,2-Cyclohexanediol	0.0050 U	0.0050	0.0050	mg/l	
	1,3&1,4-Cyclohexanediol	0.0050 U	0.0050	0.0050	mg/l	

U = Not detected SDL - Sample Detection Limit
 MQL = Method Quantitation Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Page 3 of 3

3
3
6

Client Sample ID:	FR-104	Date Sampled:	12/04/07
Lab Sample ID:	T19964-6	Date Received:	12/05/07
Matrix:	AQ - Water	Percent Solids:	n/a
Method:	SW846 8270C SW846 3510C		
Project:	Falcon Refinery Superfund Site/Ingleside, TX		

SW-846 8270C

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	37%		10-66%
4165-62-2	Phenol-d5	25%		10-53%
118-79-6	2,4,6-Tribromophenol	73%		32-128%
4165-60-0	Nitrobenzene-d5	62%		29-115%
321-60-8	2-Fluorobiphenyl	64%		34-113%
1718-51-0	Terphenyl-d14	64%		12-145%

U = Not detected SDL - Sample Detection Limit
 MQL = Method Quantitation Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 1

36

3

Client Sample ID:	FR-104	Date Sampled:	12/04/07
Lab Sample ID:	T19964-6	Date Received:	12/05/07
Matrix:	AQ - Water	Percent Solids:	n/a
Method:	SW846 8270C BY SIM SW846 3510C		
Project:	Falcon Refinery Superfund Site/Ingleside, TX		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	A24739.D	1	12/09/07	SC	12/08/07	OP8671	EA1538
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	MQL	SDL	Units	Q
56-55-3	Benzo(a)anthracene	0.000055 U	0.00020	0.000055	mg/l	
50-32-8	Benzo(a)pyrene	0.000099 U	0.00020	0.000099	mg/l	
205-99-2	Benzo(b)fluoranthene	0.000056 U	0.00020	0.000056	mg/l	
207-08-9	Benzo(k)fluoranthene	0.000046 U	0.00020	0.000046	mg/l	

U = Not detected SDL - Sample Detection Limit
 MQL = Method Quantitation Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 1

36

Client Sample ID:	FR-104	Date Sampled:	12/04/07
Lab Sample ID:	T19964-6	Date Received:	12/05/07
Matrix:	AQ - Water	Percent Solids:	n/a
Project:	Falcon Refinery Superfund Site/Ingleside, TX		

Metals Analysis

Analyte	Result	MQL	SDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Aluminum	86 U	200	86	ug/l	1	12/13/07	12/13/07	NS	SW846 6010B ¹
Antimony	5.3	5.0	2.7	ug/l	1	12/13/07	12/13/07	NS	SW846 6010B ¹
Arsenic	7.5	5.0	2.7	ug/l	1	12/13/07	12/13/07	NS	SW846 6010B ¹
Barium	137 B	200	2.4	ug/l	1	12/13/07	12/13/07	NS	SW846 6010B ¹
Beryllium	0.26 U	5.0	0.26	ug/l	1	12/13/07	12/13/07	NS	SW846 6010B ¹
Cadmium	1.8 U	4.0	1.8	ug/l	1	12/13/07	12/13/07	NS	SW846 6010B ¹
Calcium	87900	5000	170	ug/l	1	12/13/07	12/13/07	NS	SW846 6010B ¹
Chromium	1.5 U	10	1.5	ug/l	1	12/13/07	12/13/07	NS	SW846 6010B ¹
Cobalt	9.6 U	50	9.6	ug/l	1	12/13/07	12/13/07	NS	SW846 6010B ¹
Copper	5.9 U	25	5.9	ug/l	1	12/13/07	12/13/07	NS	SW846 6010B ¹
Iron	372	100	24	ug/l	1	12/13/07	12/13/07	NS	SW846 6010B ¹
Lead	2.8 U	3.0	2.8	ug/l	1	12/13/07	12/13/07	NS	SW846 6010B ¹
Magnesium	216000	5000	13	ug/l	1	12/13/07	12/13/07	NS	SW846 6010B ¹
Manganese	1010	15	4.1	ug/l	1	12/13/07	12/13/07	NS	SW846 6010B ¹
Mercury	0.094 U	0.20	0.094	ug/l	1	12/14/07	12/14/07	NS	SW846 7470A ³
Nickel	2.6 U	40	2.6	ug/l	1	12/13/07	12/13/07	NS	SW846 6010B ¹
Potassium	55300	5000	160	ug/l	1	12/13/07	12/13/07	NS	SW846 6010B ¹
Selenium	2.3 U	5.0	2.3	ug/l	1	12/13/07	12/13/07	NS	SW846 6010B ¹
Silver	1.1 U	10	1.1	ug/l	1	12/13/07	12/13/07	NS	SW846 6010B ¹
Sodium	2010000	25000	1600	ug/l	5	12/13/07	12/14/07	NS	SW846 6010B ²
Thallium	4.1 B	10	2.7	ug/l	1	12/13/07	12/13/07	NS	SW846 6010B ¹
Vanadium	0.94 U	50	0.94	ug/l	1	12/13/07	12/13/07	NS	SW846 6010B ¹
Zinc	12.3 B	20	7.5	ug/l	1	12/13/07	12/13/07	NS	SW846 6010B ¹

- (1) Instrument QC Batch: MA3274
- (2) Instrument QC Batch: MA3278
- (3) Instrument QC Batch: MA3279
- (4) Prep QC Batch: MP7028
- (5) Prep QC Batch: MP7036

MQL = Method Quantitation Limit
 SDL = Sample Detection Limit

U = Indicates a result < SDL
 B = Indicates a result >= SDL but < MQL

Report of Analysis

Page 1 of 1

36

3

Client Sample ID:	FR-104	Date Sampled:	12/04/07
Lab Sample ID:	T19964-6	Date Received:	12/05/07
Matrix:	AQ - Water	Percent Solids:	n/a
Project:	Falcon Refinery Superfund Site/Ingleside, TX		

General Chemistry

Analyte	Result	MQL	SDL	Units	DF	Analyzed	By	Method
Chromium, Hexavalent	0.0040 U	0.010	0.0040	mg/l	1	12/05/07 07:20	SS	SW846 7196A

MQL = Method Quantitation Limit
SDL = Sample Detection Limit

U = Indicates a result < SDL
B = Indicates a result > = SDL but < MQL

Report of Analysis

Page 1 of 2

3.7

3

Client Sample ID: FR-105
Lab Sample ID: T19964-7
Matrix: SO - Soil
Method: SW846 8260B
Project: Falcon Refinery Superfund Site/Ingleside, TX

Date Sampled: 12/04/07
Date Received: 12/05/07
Percent Solids: 83.2

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M0001124.D	1	12/10/07	LJ	n/a	n/a	VM47
Run #2							

	Initial Weight	Final Volume
Run #1	5.08 g	5.0 ml
Run #2		

SW-846 8260B

CAS No.	Compound	Result	MQL	SDL	Units	Q
67-64-1	Acetone	0.0085 U	0.059	0.0085	mg/kg	
71-43-2	Benzene	0.0016 U	0.0059	0.0016	mg/kg	
108-86-1	Bromobenzene	0.0015 U	0.0059	0.0015	mg/kg	
74-97-5	Bromochloromethane	0.0017 U	0.0059	0.0017	mg/kg	
75-27-4	Bromodichloromethane	0.0017 U	0.0059	0.0017	mg/kg	
75-25-2	Bromoform	0.0014 U	0.0059	0.0014	mg/kg	
71-36-3	n-Butyl Alcohol	0.059 U	0.059	0.059	mg/kg	
104-51-8	n-Butylbenzene	0.0011 U	0.0059	0.0011	mg/kg	
98-06-6	tert-Butylbenzene	0.0012 U	0.0059	0.0012	mg/kg	
108-90-7	Chlorobenzene	0.0017 U	0.0059	0.0017	mg/kg	
75-00-3	Chloroethane	0.0017 U	0.0059	0.0017	mg/kg	
67-66-3	Chloroform	0.0015 U	0.0059	0.0015	mg/kg	
95-49-8	o-Chlorotoluene	0.0014 U	0.0059	0.0014	mg/kg	
106-43-4	p-Chlorotoluene	0.0013 U	0.0059	0.0013	mg/kg	
75-15-0	Carbon disulfide	0.0015 U	0.012	0.0015	mg/kg	
56-23-5	Carbon tetrachloride	0.0013 U	0.0059	0.0013	mg/kg	
110-82-7	Cyclohexane	0.0014 U	0.0059	0.0014	mg/kg	
75-34-3	1,1-Dichloroethane	0.0015 U	0.0059	0.0015	mg/kg	
75-35-4	1,1-Dichloroethylene	0.0015 U	0.0059	0.0015	mg/kg	
563-58-6	1,1-Dichloropropene	0.0014 U	0.0059	0.0014	mg/kg	
96-12-8	1,2-Dibromo-3-chloropropane	0.0017 U	0.0059	0.0017	mg/kg	
106-93-4	1,2-Dibromoethane	0.0017 U	0.0059	0.0017	mg/kg	
107-06-2	1,2-Dichloroethane	0.0016 U	0.0059	0.0016	mg/kg	
78-87-5	1,2-Dichloropropane	0.0017 U	0.0059	0.0017	mg/kg	
142-28-9	1,3-Dichloropropane	0.0017 U	0.0059	0.0017	mg/kg	
123-91-1	1,4-Dioxane	0.028 U	0.30	0.028	mg/kg	
594-20-7	2,2-Dichloropropane	0.0013 U	0.0059	0.0013	mg/kg	
124-48-1	Dibromochloromethane	0.0016 U	0.0059	0.0016	mg/kg	
75-71-8	Dichlorodifluoromethane	0.0013 U	0.0059	0.0013	mg/kg	
156-59-2	cis-1,2-Dichloroethylene	0.0016 U	0.0059	0.0016	mg/kg	
10061-01-5	cis-1,3-Dichloropropene	0.0015 U	0.0059	0.0015	mg/kg	
156-60-5	trans-1,2-Dichloroethylene	0.0015 U	0.0059	0.0015	mg/kg	

U = Not detected SDL - Sample Detection Limit

J = Indicates an estimated value

MQL = Method Quantitation Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 2 of 2

3.7

3

Client Sample ID:	FR-105	Date Sampled:	12/04/07
Lab Sample ID:	T19964-7	Date Received:	12/05/07
Matrix:	SO - Soil	Percent Solids:	83.2
Method:	SW846 8260B	Falcon Refinery Superfund Site/Ingleside, TX	
Project:			

SW-846 8260B

CAS No.	Compound	Result	MQL	SDL	Units	Q
10061-02-6	trans-1,3-Dichloropropene	0.0016 U	0.0059	0.0016	mg/kg	
100-41-4	Ethylbenzene	0.0015 U	0.0059	0.0015	mg/kg	
60-29-7	Ethyl Ether	0.0059 U	0.0059	0.0059	mg/kg	
110-54-3	Hexane	0.0013 U	0.0059	0.0013	mg/kg	
591-78-6	2-Hexanone	0.0081 U	0.059	0.0081	mg/kg	
87-68-3	Hexachlorobutadiene	0.0014 U	0.0059	0.0014	mg/kg	
98-82-8	Isopropylbenzene	0.0014 U	0.0059	0.0014	mg/kg	
99-87-6	p-Isopropyltoluene	0.0014 U	0.0059	0.0014	mg/kg	
108-10-1	4-Methyl-2-pentanone	0.0083 U	0.059	0.0083	mg/kg	
74-83-9	Methyl bromide	0.0018 U	0.0059	0.0018	mg/kg	
74-87-3	Methyl chloride	0.0017 U	0.0059	0.0017	mg/kg	
74-95-3	Methylene bromide	0.0024 U	0.0059	0.0024	mg/kg	
75-09-2	Methylene chloride	0.0029 U	0.012	0.0029	mg/kg	
78-93-3	Methyl ethyl ketone	0.0080 U	0.059	0.0080	mg/kg	
103-65-1	n-Propylbenzene	0.0013 U	0.0059	0.0013	mg/kg	
100-42-5	Styrene	0.0015 U	0.0059	0.0015	mg/kg	
630-20-6	1,1,1,2-Tetrachloroethane	0.0017 U	0.0059	0.0017	mg/kg	
71-55-6	1,1,1-Trichloroethane	0.0014 U	0.0059	0.0014	mg/kg	
79-34-5	1,1,2,2-Tetrachloroethane	0.0017 U	0.0059	0.0017	mg/kg	
79-00-5	1,1,2-Trichloroethane	0.0016 U	0.0059	0.0016	mg/kg	
87-61-6	1,2,3-Trichlorobenzene	0.0014 U	0.0059	0.0014	mg/kg	
96-18-4	1,2,3-Trichloropropane	0.0017 U	0.0059	0.0017	mg/kg	
120-82-1	1,2,4-Trichlorobenzene	0.0012 U	0.0059	0.0012	mg/kg	
95-63-6	1,2,4-Trimethylbenzene	0.0013 U	0.0059	0.0013	mg/kg	
108-67-8	1,3,5-Trimethylbenzene	0.0013 U	0.0059	0.0013	mg/kg	
127-18-4	Tetrachloroethylene	0.0016 U	0.0059	0.0016	mg/kg	
108-88-3	Toluene	0.0015 U	0.0059	0.0015	mg/kg	
79-01-6	Trichloroethylene	0.0015 U	0.0059	0.0015	mg/kg	
75-69-4	Trichlorofluoromethane	0.0012 U	0.0059	0.0012	mg/kg	
75-01-4	Vinyl chloride	0.0016 U	0.0059	0.0016	mg/kg	
108-05-4	Vinyl Acetate	0.0090 U	0.030	0.0090	mg/kg	
1330-20-7	Xylene (total)	0.0045 U	0.018	0.0045	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	109%		68-127%
2037-26-5	Toluene-D8	124%		76-139%
460-00-4	4-Bromofluorobenzene	122%		68-167%
17060-07-0	1,2-Dichloroethane-D4	98%		56-121%

U = Not detected SDL - Sample Detection Limit

J = Indicates an estimated value

MQL = Method Quantitation Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 3

3.7

3

Client Sample ID:	FR-105	Date Sampled:	12/04/07
Lab Sample ID:	T19964-7	Date Received:	12/05/07
Matrix:	SO - Soil	Percent Solids:	83.2
Method:	SW846 8270C SW846 3550B		
Project:	Falcon Refinery Superfund Site/Ingleside, TX		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
	A24809.D	1	12/11/07	SC	12/07/07	OP8652	EA1540
Run #2							

	Initial Weight	Final Volume
Run #1	30.2 g	1.0 ml
Run #2		

SW-846 8270C

CAS No.	Compound	Result	MQL	SDL	Units	Q
108-98-5	Benzene thiol	0.20 U	0.20	0.20	mg/kg	
65-85-0	Benzoic acid	0.050 U	1.0	0.050	mg/kg	
95-57-8	2-Chlorophenol	0.061 U	0.20	0.061	mg/kg	
59-50-7	4-Chloro-3-methyl phenol	0.045 U	0.20	0.045	mg/kg	
120-83-2	2,4-Dichlorophenol	0.067 U	0.20	0.067	mg/kg	
105-67-9	2,4-Dimethylphenol	0.063 U	0.20	0.063	mg/kg	
51-28-5	2,4-Dinitrophenol	0.067 U	1.0	0.067	mg/kg	
534-52-1	4,6-Dinitro-o-cresol	0.13 U	0.40	0.13	mg/kg	
95-48-7	2-Methylphenol	0.043 U	0.20	0.043	mg/kg	
	3&4-Methylphenol	0.065 U	0.20	0.065	mg/kg	
100-02-7	4-Nitrophenol	0.079 U	0.20	0.079	mg/kg	
87-86-5	Pentachlorophenol	0.053 U	1.0	0.053	mg/kg	
108-95-2	Phenol	0.080 U	0.20	0.080	mg/kg	
95-95-4	2,4,5-Trichlorophenol	0.056 U	0.20	0.056	mg/kg	
88-06-2	2,4,6-Trichlorophenol	0.053 U	0.20	0.053	mg/kg	
83-32-9	Acenaphthene	0.048 U	0.20	0.048	mg/kg	
208-96-8	Acenaphthylene	0.054 U	0.20	0.054	mg/kg	
120-12-7	Anthracene	0.065 U	0.20	0.065	mg/kg	
56-55-3	Benzo(a)anthracene	0.074 U	0.20	0.074	mg/kg	
50-32-8	Benzo(a)pyrene	0.065 U	0.20	0.065	mg/kg	
205-99-2	Benzo(b)fluoranthene	0.084 U	0.20	0.084	mg/kg	
191-24-2	Benzo(g,h,i)perylene	0.11 U	0.20	0.11	mg/kg	
207-08-9	Benzo(k)fluoranthene	0.092 U	0.20	0.092	mg/kg	
101-55-3	4-Bromophenyl phenyl ether	0.076 U	0.20	0.076	mg/kg	
85-68-7	Butyl benzyl phthalate	0.095 U	0.20	0.095	mg/kg	
100-51-6	Benzyl Alcohol	0.071 U	0.20	0.071	mg/kg	
91-58-7	2-Chloronaphthalene	0.055 U	0.20	0.055	mg/kg	
106-47-8	4-Chloroaniline	0.056 U	0.20	0.056	mg/kg	
86-74-8	Carbazole	0.086 U	0.20	0.086	mg/kg	
218-01-9	Chrysene	0.065 U	0.20	0.065	mg/kg	
111-91-1	bis(2-Chloroethoxy)methane	0.075 U	0.20	0.075	mg/kg	
111-44-4	bis(2-Chloroethyl)ether	0.043 U	0.20	0.043	mg/kg	

U = Not detected SDL - Sample Detection Limit

J = Indicates an estimated value

MQL = Method Quantitation Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	FR-105	Date Sampled:	12/04/07
Lab Sample ID:	T19964-7	Date Received:	12/05/07
Matrix:	SO - Soil	Percent Solids:	83.2
Method:	SW846 8270C SW846 3550B		
Project:	Falcon Refinery Superfund Site/Ingleside, TX		

SW-846 8270C

CAS No.	Compound	Result	MQL	SDL	Units	Q
7005-72-3	4-Chlorophenyl phenyl ether	0.061 U	0.20	0.061	mg/kg	
95-50-1	1,2-Dichlorobenzene	0.068 U	0.20	0.068	mg/kg	
541-73-1	1,3-Dichlorobenzene	0.062 U	0.20	0.062	mg/kg	
106-46-7	1,4-Dichlorobenzene	0.055 U	0.20	0.055	mg/kg	
121-14-2	2,4-Dinitrotoluene	0.087 U	0.20	0.087	mg/kg	
606-20-2	2,6-Dinitrotoluene	0.051 U	0.20	0.051	mg/kg	
91-94-1	3,3'-Dichlorobenzidine	0.081 U	0.40	0.081	mg/kg	
57-97-6	7,12-Dimethylbenz(a)anthracene	0.20 U	0.20	0.20	mg/kg	
226-36-8	Dibenz(a,h)acridine	0.20 U	0.20	0.20	mg/kg	
53-70-3	Dibenzo(a,h)anthracene	0.069 U	0.20	0.069	mg/kg	
132-64-9	Dibenzofuran	0.055 U	0.20	0.055	mg/kg	
122-39-4	Diphenylamine	0.087 U	0.20	0.087	mg/kg	
84-74-2	Di-n-butyl phthalate	0.098 U	0.20	0.098	mg/kg	
117-84-0	Di-n-octyl phthalate	0.18 U	0.20	0.18	mg/kg	
84-66-2	Diethyl phthalate	0.0707	0.20	0.055	mg/kg	J
131-11-3	Dimethyl phthalate	0.049 U	0.20	0.049	mg/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	0.099 U	0.20	0.099	mg/kg	
206-44-0	Fluoranthene	0.090 U	0.20	0.090	mg/kg	
86-73-7	Fluorene	0.061 U	0.20	0.061	mg/kg	
118-74-1	Hexachlorobenzene	0.065 U	0.20	0.065	mg/kg	
87-68-3	Hexachlorobutadiene	0.061 U	0.20	0.061	mg/kg	
77-47-4	Hexachlorocyclopentadiene	0.072 U	0.20	0.072	mg/kg	
67-72-1	Hexachloroethane	0.059 U	0.20	0.059	mg/kg	
95-13-6	Indene	1.0 U	1.0	1.0	mg/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	0.077 U	0.20	0.077	mg/kg	
78-59-1	Isophorone	0.052 U	0.20	0.052	mg/kg	
90-12-0	1-Methylnaphthalene	0.047 U	0.20	0.047	mg/kg	
91-57-6	2-Methylnaphthalene	0.053 U	0.20	0.053	mg/kg	
	6-Methyl Chrysene	0.20 U	0.20	0.20	mg/kg	
88-74-4	2-Nitroaniline	0.052 U	0.20	0.052	mg/kg	
99-09-2	3-Nitroaniline	0.075 U	0.20	0.075	mg/kg	
100-01-6	4-Nitroaniline	0.11 U	0.20	0.11	mg/kg	
91-20-3	Naphthalene	0.048 U	0.20	0.048	mg/kg	
98-95-3	Nitrobenzene	0.056 U	0.20	0.056	mg/kg	
621-64-7	N-Nitroso-di-n-propylamine	0.080 U	0.20	0.080	mg/kg	
86-30-6	N-Nitrosodiphenylamine	0.087 U	0.20	0.087	mg/kg	
85-01-8	Phenanthrene	0.074 U	0.20	0.074	mg/kg	
129-00-0	Pyrene	0.097 U	0.20	0.097	mg/kg	
91-22-5	Quinoline	0.20 U	0.20	0.20	mg/kg	
120-82-1	1,2,4-Trichlorobenzene	0.052 U	0.20	0.052	mg/kg	

U = Not detected SDL - Sample Detection Limit

MQL = Method Quantitation Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	FR-105	Date Sampled:	12/04/07
Lab Sample ID:	T19964-7	Date Received:	12/05/07
Matrix:	SO - Soil	Percent Solids:	83.2
Method:	SW846 8270C SW846 3550B		
Project:	Falcon Refinery Superfund Site/Ingleside, TX		

SW-846 8270C

CAS No.	Compound	Result	MQL	SDL	Units	Q
931-17-9	1,3&1,4-Cyclohexanediol	0.20 U	0.20	0.20	mg/kg	
	1,2-Cyclohexanediol	0.20 U	0.20	0.20	mg/kg	
98-85-1	1-Phenylethanol	0.20 U	0.20	0.20	mg/kg	
CAS No. Surrogate Recoveries Run# 1 Run# 2 Limits						
367-12-4	2-Fluorophenol	65%			26-124%	
4165-62-2	Phenol-d5	74%			19-106%	
118-79-6	2,4,6-Tribromophenol	85%			18-129%	
4165-60-0	Nitrobenzene-d5	77%			18-104%	
321-60-8	2-Fluorobiphenyl	77%			21-114%	
1718-51-0	Terphenyl-d14	81%			24-149%	

U = Not detected SDL - Sample Detection Limit
 MQL = Method Quantitation Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 1

3.3

3

Client Sample ID:	FR-105	Date Sampled:	12/04/07
Lab Sample ID:	T19964-7	Date Received:	12/05/07
Matrix:	SO - Soil	Percent Solids:	83.2
Project:	Falcon Refinery Superfund Site/Ingleside, TX		

Metals Analysis

Analyte	Result	MQL	SDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Aluminum	2600	21	4.7	mg/kg	1	12/10/07	12/11/07	NS	SW846 6010B ¹
Antimony	0.29 U	1.1	0.29	mg/kg	1	12/10/07	12/11/07	NS	SW846 6010B ¹
Arsenic	1.4	1.1	0.21	mg/kg	1	12/10/07	12/11/07	NS	SW846 6010B ¹
Barium	41.4	21	0.064	mg/kg	1	12/10/07	12/11/07	NS	SW846 6010B ¹
Beryllium	0.075 B	0.54	0.021	mg/kg	1	12/10/07	12/11/07	NS	SW846 6010B ¹
Cadmium	0.11 U	0.54	0.11	mg/kg	1	12/10/07	12/11/07	NS	SW846 6010B ¹
Calcium	21000	540	1.8	mg/kg	1	12/10/07	12/11/07	NS	SW846 6010B ¹
Chromium	2.0	1.1	0.075	mg/kg	1	12/10/07	12/11/07	NS	SW846 6010B ¹
Cobalt	1.0 B	5.4	0.19	mg/kg	1	12/10/07	12/11/07	NS	SW846 6010B ¹
Copper	2.4 B	2.7	0.14	mg/kg	1	12/10/07	12/11/07	NS	SW846 6010B ¹
Iron	2050	11	2.4	mg/kg	1	12/10/07	12/12/07	NS	SW846 6010B ³
Lead	5.4	1.1	0.43	mg/kg	1	12/10/07	12/11/07	NS	SW846 6010B ¹
Magnesium	6070	540	1.2	mg/kg	1	12/10/07	12/11/07	NS	SW846 6010B ¹
Manganese	207	1.6	0.075	mg/kg	1	12/10/07	12/11/07	NS	SW846 6010B ¹
Mercury	0.0076 B	0.019	0.000076	mg/kg	1	12/12/07	12/12/07	NS	SW846 7471A ²
Nickel	1.3 B	4.3	0.14	mg/kg	1	12/10/07	12/11/07	NS	SW846 6010B ¹
Potassium	652	540	33	mg/kg	1	12/10/07	12/11/07	NS	SW846 6010B ¹
Selenium	0.26 U	1.1	0.26	mg/kg	1	12/10/07	12/11/07	NS	SW846 6010B ¹
Silver	0.086 U	1.1	0.086	mg/kg	1	12/10/07	12/11/07	NS	SW846 6010B ¹
Sodium	865	540	29	mg/kg	1	12/10/07	12/11/07	NS	SW846 6010B ¹
Thallium	0.54 U	2.1	0.54	mg/kg	1	12/10/07	12/11/07	NS	SW846 6010B ¹
Vanadium	4.8 B	5.4	0.13	mg/kg	1	12/10/07	12/11/07	NS	SW846 6010B ¹
Zinc	11.1	2.1	0.43	mg/kg	1	12/10/07	12/11/07	NS	SW846 6010B ¹

- (1) Instrument QC Batch: MA3269
- (2) Instrument QC Batch: MA3272
- (3) Instrument QC Batch: MA3273
- (4) Prep QC Batch: MP7001
- (5) Prep QC Batch: MP7020

MQL = Method Quantitation Limit
 SDL = Sample Detection Limit

U = Indicates a result < SDL
 B = Indicates a result >= SDL but < MQL

Report of Analysis

Page 1 of 1

3.7

3

Client Sample ID:	FR-105	Date Sampled:	12/04/07
Lab Sample ID:	T19964-7	Date Received:	12/05/07
Matrix:	SO - Soil	Percent Solids:	83.2
Project:	Falcon Refinery Superfund Site/Ingleside, TX		

General Chemistry

Analyte	Result	MQL	SDL	Units	DF	Analyzed	By	Method
Chromium, Hexavalent ^a	1.2 U	2.4	1.2	mg/kg	1	12/21/07	AFL	SW846 3060A/7196A
Solids, Percent	83.2			%	1	12/12/07	TW	EPA 160.3 M

(a) Analysis performed at Accutest Laboratories, Orlando, FL.

MQL = Method Quantitation Limit
 SDL = Sample Detection Limit

U = Indicates a result < SDL
 B = Indicates a result >= SDL but < MQL

Report of Analysis

Page 1 of 2

38

3

Client Sample ID: FR-106
Lab Sample ID: T19964-8
Matrix: SO - Soil
Method: SW846 8260B
Project: Falcon Refinery Superfund Site/Ingleside, TX

Date Sampled: 12/04/07
Date Received: 12/05/07
Percent Solids: 83.6

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
	M0001125.D	1	12/10/07	LJ	n/a	n/a	VM47

	Initial Weight	Final Volume
Run #1	5.12 g	5.0 ml
Run #2		

SW-846 8260B

CAS No.	Compound	Result	MQL	SDL	Units	Q
67-64-1	Acetone	0.0127	0.058	0.0084	mg/kg	J
71-43-2	Benzene	0.0016 U	0.0058	0.0016	mg/kg	
108-86-1	Bromobenzene	0.0015 U	0.0058	0.0015	mg/kg	
74-97-5	Bromochloromethane	0.0017 U	0.0058	0.0017	mg/kg	
75-27-4	Bromodichloromethane	0.0016 U	0.0058	0.0016	mg/kg	
75-25-2	Bromoform	0.0014 U	0.0058	0.0014	mg/kg	
71-36-3	n-Butyl Alcohol	0.058 U	0.058	0.058	mg/kg	
104-51-8	n-Butylbenzene	0.0011 U	0.0058	0.0011	mg/kg	
98-06-6	tert-Butylbenzene	0.0012 U	0.0058	0.0012	mg/kg	
108-90-7	Chlorobenzene	0.0016 U	0.0058	0.0016	mg/kg	
75-00-3	Chloroethane	0.0017 U	0.0058	0.0017	mg/kg	
67-66-3	Chloroform	0.0015 U	0.0058	0.0015	mg/kg	
95-49-8	o-Chlorotoluene	0.0014 U	0.0058	0.0014	mg/kg	
106-43-4	p-Chlorotoluene	0.0013 U	0.0058	0.0013	mg/kg	
75-15-0	Carbon disulfide	0.0015 U	0.012	0.0015	mg/kg	
56-23-5	Carbon tetrachloride	0.0013 U	0.0058	0.0013	mg/kg	
110-82-7	Cyclohexane	0.0013 U	0.0058	0.0013	mg/kg	
75-34-3	1,1-Dichloroethane	0.0015 U	0.0058	0.0015	mg/kg	
75-35-4	1,1-Dichloroethylene	0.0015 U	0.0058	0.0015	mg/kg	
563-58-6	1,1-Dichloropropene	0.0014 U	0.0058	0.0014	mg/kg	
96-12-8	1,2-Dibromo-3-chloropropane	0.0016 U	0.0058	0.0016	mg/kg	
106-93-4	1,2-Dibromoethane	0.0016 U	0.0058	0.0016	mg/kg	
107-06-2	1,2-Dichloroethane	0.0016 U	0.0058	0.0016	mg/kg	
78-87-5	1,2-Dichloropropane	0.0017 U	0.0058	0.0017	mg/kg	
142-28-9	1,3-Dichloropropane	0.0017 U	0.0058	0.0017	mg/kg	
123-91-1	1,4-Dioxane	0.028 U	0.29	0.028	mg/kg	
594-20-7	2,2-Dichloropropane	0.0013 U	0.0058	0.0013	mg/kg	
124-48-1	Dibromochloromethane	0.0016 U	0.0058	0.0016	mg/kg	
75-71-8	Dichlorodifluoromethane	0.0012 U	0.0058	0.0012	mg/kg	
156-59-2	cis-1,2-Dichloroethylene	0.0016 U	0.0058	0.0016	mg/kg	
10061-01-5	cis-1,3-Dichloropropene	0.0015 U	0.0058	0.0015	mg/kg	
156-60-5	trans-1,2-Dichloroethylene	0.0015 U	0.0058	0.0015	mg/kg	

U = Not detected SDL - Sample Detection Limit

J = Indicates an estimated value

MQL = Method Quantitation Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 2 of 2

38

3

Client Sample ID:	FR-106	Date Sampled:	12/04/07
Lab Sample ID:	T19964-8	Date Received:	12/05/07
Matrix:	SO - Soil	Percent Solids:	83.6
Method:	SW846 8260B	Falcon Refinery Superfund Site/Ingleside, TX	
Project:			

SW-846 8260B

CAS No.	Compound	Result	MQL	SDL	Units	Q
10061-02-6	trans-1,3-Dichloropropene	0.0016 U	0.0058	0.0016	mg/kg	
100-41-4	Ethylbenzene	0.0015 U	0.0058	0.0015	mg/kg	
60-29-7	Ethyl Ether	0.0058 U	0.0058	0.0058	mg/kg	
110-54-3	Hexane	0.0012 U	0.0058	0.0012	mg/kg	
591-78-6	2-Hexanone	0.0080 U	0.058	0.0080	mg/kg	
87-68-3	Hexachlorobutadiene	0.0014 U	0.0058	0.0014	mg/kg	
98-82-8	Isopropylbenzene	0.0014 U	0.0058	0.0014	mg/kg	
99-87-6	p-Isopropyltoluene	0.0014 U	0.0058	0.0014	mg/kg	
108-10-1	4-Methyl-2-pentanone	0.0082 U	0.058	0.0082	mg/kg	
74-83-9	Methyl bromide	0.0018 U	0.0058	0.0018	mg/kg	
74-87-3	Methyl chloride	0.0017 U	0.0058	0.0017	mg/kg	
74-95-3	Methylene bromide	0.0023 U	0.0058	0.0023	mg/kg	
75-09-2	Methylene chloride	0.0029 U	0.012	0.0029	mg/kg	
78-93-3	Methyl ethyl ketone	0.0079 U	0.058	0.0079	mg/kg	
103-65-1	n-Propylbenzene	0.0013 U	0.0058	0.0013	mg/kg	
100-42-5	Styrene	0.0015 U	0.0058	0.0015	mg/kg	
630-20-6	1,1,1,2-Tetrachloroethane	0.0016 U	0.0058	0.0016	mg/kg	
71-55-6	1,1,1-Trichloroethane	0.0014 U	0.0058	0.0014	mg/kg	
79-34-5	1,1,2,2-Tetrachloroethane	0.0017 U	0.0058	0.0017	mg/kg	
79-00-5	1,1,2-Trichloroethane	0.0016 U	0.0058	0.0016	mg/kg	
87-61-6	1,2,3-Trichlorobenzene	0.0014 U	0.0058	0.0014	mg/kg	
96-18-4	1,2,3-Trichloropropane	0.0016 U	0.0058	0.0016	mg/kg	
120-82-1	1,2,4-Trichlorobenzene	0.0012 U	0.0058	0.0012	mg/kg	
95-63-6	1,2,4-Trimethylbenzene	0.0013 U	0.0058	0.0013	mg/kg	
108-67-8	1,3,5-Trimethylbenzene	0.0013 U	0.0058	0.0013	mg/kg	
127-18-4	Tetrachloroethylene	0.0015 U	0.0058	0.0015	mg/kg	
108-88-3	Toluene	0.0015 U	0.0058	0.0015	mg/kg	
79-01-6	Trichloroethylene	0.0015 U	0.0058	0.0015	mg/kg	
75-69-4	Trichlorofluoromethane	0.0012 U	0.0058	0.0012	mg/kg	
75-01-4	Vinyl chloride	0.0016 U	0.0058	0.0016	mg/kg	
108-05-4	Vinyl Acetate	0.0089 U	0.029	0.0089	mg/kg	
1330-20-7	Xylene (total)	0.0044 U	0.018	0.0044	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	109%		68-127%
2037-26-5	Toluene-D8	119%		76-139%
460-00-4	4-Bromofluorobenzene	116%		68-167%
17060-07-0	1,2-Dichloroethane-D4	97%		56-121%

U = Not detected SDL - Sample Detection Limit
 MQL = Method Quantitation Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 3

38

3

Client Sample ID:	FR-106	Date Sampled:	12/04/07
Lab Sample ID:	T19964-8	Date Received:	12/05/07
Matrix:	SO - Soil	Percent Solids:	83.6
Method:	SW846 8270C SW846 3550B		
Project:	Falcon Refinery Superfund Site/Ingleside, TX		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
	A24810.D	1	12/11/07	SC	12/07/07	OP8652	EA1540
Run #2							

	Initial Weight	Final Volume
Run #1	30.7 g	1.0 ml
Run #2		

SW-846 8270C

CAS No.	Compound	Result	MQL	SDL	Units	Q
108-98-5	Benzene thiol	0.19 U	0.19	0.19	mg/kg	
65-85-0	Benzoic acid	0.049 U	0.97	0.049	mg/kg	
95-57-8	2-Chlorophenol	0.060 U	0.19	0.060	mg/kg	
59-50-7	4-Chloro-3-methyl phenol	0.044 U	0.19	0.044	mg/kg	
120-83-2	2,4-Dichlorophenol	0.066 U	0.19	0.066	mg/kg	
105-67-9	2,4-Dimethylphenol	0.062 U	0.19	0.062	mg/kg	
51-28-5	2,4-Dinitrophenol	0.066 U	0.97	0.066	mg/kg	
534-52-1	4,6-Dinitro-o-cresol	0.12 U	0.39	0.12	mg/kg	
95-48-7	2-Methylphenol	0.042 U	0.19	0.042	mg/kg	
	3&4-Methylphenol	0.064 U	0.19	0.064	mg/kg	
100-02-7	4-Nitrophenol	0.077 U	0.19	0.077	mg/kg	
87-86-5	Pentachlorophenol	0.051 U	0.97	0.051	mg/kg	
108-95-2	Phenol	0.078 U	0.19	0.078	mg/kg	
95-95-4	2,4,5-Trichlorophenol	0.055 U	0.19	0.055	mg/kg	
88-06-2	2,4,6-Trichlorophenol	0.052 U	0.19	0.052	mg/kg	
83-32-9	Acenaphthene	0.047 U	0.19	0.047	mg/kg	
208-96-8	Acenaphthylene	0.053 U	0.19	0.053	mg/kg	
120-12-7	Anthracene	0.064 U	0.19	0.064	mg/kg	
56-55-3	Benzo(a)anthracene	0.073 U	0.19	0.073	mg/kg	
50-32-8	Benzo(a)pyrene	0.064 U	0.19	0.064	mg/kg	
205-99-2	Benzo(b)fluoranthene	0.082 U	0.19	0.082	mg/kg	
191-24-2	Benzo(g,h,i)perylene	0.11 U	0.19	0.11	mg/kg	
207-08-9	Benzo(k)fluoranthene	0.090 U	0.19	0.090	mg/kg	
101-55-3	4-Bromophenyl phenyl ether	0.074 U	0.19	0.074	mg/kg	
85-68-7	Butyl benzyl phthalate	0.093 U	0.19	0.093	mg/kg	
100-51-6	Benzyl Alcohol	0.069 U	0.19	0.069	mg/kg	
91-58-7	2-Chloronaphthalene	0.054 U	0.19	0.054	mg/kg	
106-47-8	4-Chloroaniline	0.055 U	0.19	0.055	mg/kg	
86-74-8	Carbazole	0.084 U	0.19	0.084	mg/kg	
218-01-9	Chrysene	0.064 U	0.19	0.064	mg/kg	
111-91-1	bis(2-Chloroethoxy)methane	0.073 U	0.19	0.073	mg/kg	
111-44-4	bis(2-Chloroethyl)ether	0.042 U	0.19	0.042	mg/kg	

U = Not detected SDL - Sample Detection Limit

J = Indicates an estimated value

MQL = Method Quantitation Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 2 of 3

38

3

Client Sample ID:	FR-106	Date Sampled:	12/04/07
Lab Sample ID:	T19964-8	Date Received:	12/05/07
Matrix:	SO - Soil	Percent Solids:	83.6
Method:	SW846 8270C SW846 3550B		
Project:	Falcon Refinery Superfund Site/Ingleside, TX		

SW-846 8270C

CAS No.	Compound	Result	MQL	SDL	Units	Q
7005-72-3	4-Chlorophenyl phenyl ether	0.060 U	0.19	0.060	mg/kg	
95-50-1	1,2-Dichlorobenzene	0.066 U	0.19	0.066	mg/kg	
541-73-1	1,3-Dichlorobenzene	0.060 U	0.19	0.060	mg/kg	
106-46-7	1,4-Dichlorobenzene	0.054 U	0.19	0.054	mg/kg	
121-14-2	2,4-Dinitrotoluene	0.085 U	0.19	0.085	mg/kg	
606-20-2	2,6-Dinitrotoluene	0.050 U	0.19	0.050	mg/kg	
91-94-1	3,3'-Dichlorobenzidine	0.079 U	0.39	0.079	mg/kg	
57-97-6	7,12-Dimethylbenz(a)anthracene	0.19 U	0.19	0.19	mg/kg	
226-36-8	Dibenz(a,h)acridine	0.19 U	0.19	0.19	mg/kg	
53-70-3	Dibenzo(a,h)anthracene	0.068 U	0.19	0.068	mg/kg	
132-64-9	Dibenzofuran	0.054 U	0.19	0.054	mg/kg	
122-39-4	Diphenylamine	0.085 U	0.19	0.085	mg/kg	
84-74-2	Di-n-butyl phthalate	0.096 U	0.19	0.096	mg/kg	
117-84-0	Di-n-octyl phthalate	0.18 U	0.19	0.18	mg/kg	
84-66-2	Diethyl phthalate	0.0763	0.19	0.054	mg/kg	J
131-11-3	Dimethyl phthalate	0.048 U	0.19	0.048	mg/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	0.097 U	0.19	0.097	mg/kg	
206-44-0	Fluoranthene	0.088 U	0.19	0.088	mg/kg	
86-73-7	Fluorene	0.059 U	0.19	0.059	mg/kg	
118-74-1	Hexachlorobenzene	0.064 U	0.19	0.064	mg/kg	
87-68-3	Hexachlorobutadiene	0.059 U	0.19	0.059	mg/kg	
77-47-4	Hexachlorocyclopentadiene	0.071 U	0.19	0.071	mg/kg	
67-72-1	Hexachloroethane	0.057 U	0.19	0.057	mg/kg	
95-13-6	Indene	0.97 U	0.97	0.97	mg/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	0.076 U	0.19	0.076	mg/kg	
78-59-1	Isophorone	0.051 U	0.19	0.051	mg/kg	
90-12-0	1-Methylnaphthalene	0.046 U	0.19	0.046	mg/kg	
91-57-6	2-Methylnaphthalene	0.052 U	0.19	0.052	mg/kg	
	6-Methyl Chrysene	0.19 U	0.19	0.19	mg/kg	
88-74-4	2-Nitroaniline	0.051 U	0.19	0.051	mg/kg	
99-09-2	3-Nitroaniline	0.073 U	0.19	0.073	mg/kg	
100-01-6	4-Nitroaniline	0.11 U	0.19	0.11	mg/kg	
91-20-3	Naphthalene	0.047 U	0.19	0.047	mg/kg	
98-95-3	Nitrobenzene	0.055 U	0.19	0.055	mg/kg	
621-64-7	N-Nitroso-di-n-propylamine	0.078 U	0.19	0.078	mg/kg	
86-30-6	N-Nitrosodiphenylamine	0.085 U	0.19	0.085	mg/kg	
85-01-8	Phenanthrene	0.073 U	0.19	0.073	mg/kg	
129-00-0	Pyrene	0.095 U	0.19	0.095	mg/kg	
91-22-5	Quinoline	0.19 U	0.19	0.19	mg/kg	
120-82-1	1,2,4-Trichlorobenzene	0.051 U	0.19	0.051	mg/kg	

U = Not detected SDL - Sample Detection Limit

MQL = Method Quantitation Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 3 of 3

38

Client Sample ID:	FR-106	Date Sampled:	12/04/07
Lab Sample ID:	T19964-8	Date Received:	12/05/07
Matrix:	SO - Soil	Percent Solids:	83.6
Method:	SW846 8270C SW846 3550B		
Project:	Falcon Refinery Superfund Site/Ingleside, TX		

SW-846 8270C

CAS No.	Compound	Result	MQL	SDL	Units	Q
931-17-9	1,3&1,4-Cyclohexanediol	0.19 U	0.19	0.19	mg/kg	
98-85-1	1,2-Cyclohexanediol	0.19 U	0.19	0.19	mg/kg	
	1-Phenylethanol	0.19 U	0.19	0.19	mg/kg	
CAS No. Surrogate Recoveries Run# 1 Run# 2 Limits						
367-12-4	2-Fluorophenol	26%			26-124%	
4165-62-2	Phenol-d5	28%			19-106%	
118-79-6	2,4,6-Tribromophenol	27%			18-129%	
4165-60-0	Nitrobenzene-d5	29%			18-104%	
321-60-8	2-Fluorobiphenyl	30%			21-114%	
1718-51-0	Terphenyl-d14	66%			24-149%	

U = Not detected SDL - Sample Detection Limit
 MQL = Method Quantitation Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 1

38

Client Sample ID:	FR-106	Date Sampled:	12/04/07
Lab Sample ID:	T19964-8	Date Received:	12/05/07
Matrix:	SO - Soil	Percent Solids:	83.6
Project:	Falcon Refinery Superfund Site/Ingleside, TX		

Metals Analysis

Analyte	Result	MQL	SDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Aluminum	1240	24	5.2	mg/kg	1	12/10/07	12/11/07	NS	SW846 6010B ¹
Antimony	0.32 U	1.2	0.32	mg/kg	1	12/10/07	12/11/07	NS	SW846 6010B ¹
Arsenic	0.81 B	1.2	0.24	mg/kg	1	12/10/07	12/11/07	NS	SW846 6010B ¹
Barium	36.2	24	0.071	mg/kg	1	12/10/07	12/11/07	NS	SW846 6010B ¹
Beryllium	0.044 B	0.59	0.024	mg/kg	1	12/10/07	12/11/07	NS	SW846 6010B ¹
Cadmium	0.12 U	0.59	0.12	mg/kg	1	12/10/07	12/11/07	NS	SW846 6010B ¹
Calcium	2590	590	2.0	mg/kg	1	12/10/07	12/11/07	NS	SW846 6010B ¹
Chromium	1.9	1.2	0.083	mg/kg	1	12/10/07	12/11/07	NS	SW846 6010B ¹
Cobalt	0.84 B	5.9	0.21	mg/kg	1	12/10/07	12/11/07	NS	SW846 6010B ¹
Copper	1.0 B	3.0	0.15	mg/kg	1	12/10/07	12/11/07	NS	SW846 6010B ¹
Iron	1400	12	2.7	mg/kg	1	12/10/07	12/12/07	NS	SW846 6010B ³
Lead	5.9	1.2	0.48	mg/kg	1	12/10/07	12/11/07	NS	SW846 6010B ¹
Magnesium	453 B	590	1.4	mg/kg	1	12/10/07	12/11/07	NS	SW846 6010B ¹
Manganese	73.0	1.8	0.083	mg/kg	1	12/10/07	12/11/07	NS	SW846 6010B ¹
Mercury	0.0048 B	0.019	0.00075	mg/kg	1	12/12/07	12/12/07	NS	SW846 7471A ²
Nickel	0.36 B	4.8	0.15	mg/kg	1	12/10/07	12/11/07	NS	SW846 6010B ¹
Potassium	271 B	590	37	mg/kg	1	12/10/07	12/11/07	NS	SW846 6010B ¹
Selenium	0.29 U	1.2	0.29	mg/kg	1	12/10/07	12/11/07	NS	SW846 6010B ¹
Silver	0.095 U	1.2	0.095	mg/kg	1	12/10/07	12/11/07	NS	SW846 6010B ¹
Sodium	254 B	590	32	mg/kg	1	12/10/07	12/11/07	NS	SW846 6010B ¹
Thallium	0.59 U	2.4	0.59	mg/kg	1	12/10/07	12/11/07	NS	SW846 6010B ¹
Vanadium	2.0 B	5.9	0.14	mg/kg	1	12/10/07	12/11/07	NS	SW846 6010B ¹
Zinc	2.8	2.4	0.48	mg/kg	1	12/10/07	12/11/07	NS	SW846 6010B ¹

- (1) Instrument QC Batch: MA3269
- (2) Instrument QC Batch: MA3272
- (3) Instrument QC Batch: MA3273
- (4) Prep QC Batch: MP7001
- (5) Prep QC Batch: MP7020

MQL = Method Quantitation Limit
 SDL = Sample Detection Limit

U = Indicates a result < SDL
 B = Indicates a result >= SDL but < MQL

Report of Analysis

Page 1 of 1

38

3

Client Sample ID:	FR-106	Date Sampled:	12/04/07
Lab Sample ID:	T19964-8	Date Received:	12/05/07
Matrix:	SO - Soil	Percent Solids:	83.6
Project:	Falcon Refinery Superfund Site/Ingleside, TX		

General Chemistry

Analyte	Result	MQL	SDL	Units	DF	Analyzed	By	Method
Chromium, Hexavalent ^a	1.2 U	2.4	1.2	mg/kg	1	12/21/07	AFL	SW846 3060A/7196A
Solids, Percent	83.6			%	1	12/12/07	TW	EPA 160.3 M

(a) Analysis performed at Accutest Laboratories, Orlando, FL.

MQL = Method Quantitation Limit
 SDL = Sample Detection Limit

U = Indicates a result < SDL
 B = Indicates a result >= SDL but < MQL

Report of Analysis

Page 1 of 2

63

3

Client Sample ID: FR-107
Lab Sample ID: T19964-9
Matrix: AQ - Water
Method: SW846 8260B
Project: Falcon Refinery Superfund Site/Ingleside, TX

Date Sampled: 12/04/07
Date Received: 12/05/07
Percent Solids: n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	F0088671.D	1	12/09/07	ZLH	n/a	n/a	VF2797
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

SW-846 8260B

CAS No.	Compound	Result	MQL	SDL	Units	Q
67-64-1	Acetone	0.0026 U	0.050	0.0026	mg/l	
71-43-2	Benzene	0.00046 U	0.0020	0.00046	mg/l	
108-86-1	Bromobenzene	0.00042 U	0.0020	0.00042	mg/l	
74-97-5	Bromochloromethane	0.00049 U	0.0020	0.00049	mg/l	
75-27-4	Bromodichloromethane	0.00042 U	0.0020	0.00042	mg/l	
75-25-2	Bromoform	0.0014 U	0.0020	0.0014	mg/l	
71-36-3	n-Butyl Alcohol	0.020 U	0.020	0.020	mg/l	
104-51-8	n-Butylbenzene	0.00055 U	0.0020	0.00055	mg/l	
98-06-6	tert-Butylbenzene	0.00083 U	0.0020	0.00083	mg/l	
108-90-7	Chlorobenzene	0.00042 U	0.0020	0.00042	mg/l	
75-00-3	Chloroethane	0.00039 U	0.0020	0.00039	mg/l	
67-66-3	Chloroform	0.00054 U	0.0020	0.00054	mg/l	
95-49-8	o-Chlorotoluene	0.00038 U	0.0020	0.00038	mg/l	
106-43-4	p-Chlorotoluene	0.00050 U	0.0020	0.00050	mg/l	
75-15-0	Carbon disulfide	0.00051 U	0.0020	0.00051	mg/l	
56-23-5	Carbon tetrachloride	0.00045 U	0.0020	0.00045	mg/l	
110-82-7	Cyclohexane	0.00053 U	0.0020	0.00053	mg/l	
75-34-3	1,1-Dichloroethane	0.00041 U	0.0020	0.00041	mg/l	
75-35-4	1,1-Dichloroethylene	0.00048 U	0.0020	0.00048	mg/l	
563-58-6	1,1-Dichloropropene	0.00035 U	0.0020	0.00035	mg/l	
96-12-8	1,2-Dibromo-3-chloropropane	0.0011 U	0.0020	0.0011	mg/l	
106-93-4	1,2-Dibromoethane	0.00047 U	0.0020	0.00047	mg/l	
107-06-2	1,2-Dichloroethane	0.00050 U	0.0020	0.00050	mg/l	
78-87-5	1,2-Dichloropropane	0.00053 U	0.0020	0.00053	mg/l	
142-28-9	1,3-Dichloropropane	0.00041 U	0.0020	0.00041	mg/l	
123-91-1	1,4-Dioxane	0.13 U	0.25	0.13	mg/l	
594-20-7	2,2-Dichloropropane	0.00058 U	0.0020	0.00058	mg/l	
124-48-1	Dibromochloromethane	0.00046 U	0.0020	0.00046	mg/l	
75-71-8	Dichlorodifluoromethane	0.00053 U	0.0020	0.00053	mg/l	
156-59-2	cis-1,2-Dichloroethylene	0.00043 U	0.0020	0.00043	mg/l	
10061-01-5	cis-1,3-Dichloropropene	0.00053 U	0.0020	0.00053	mg/l	
156-60-5	trans-1,2-Dichloroethylene	0.00046 U	0.0020	0.00046	mg/l	

U = Not detected SDL - Sample Detection Limit

J = Indicates an estimated value

MQL = Method Quantitation Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 2 of 2

63

3

Client Sample ID:	FR-107	Date Sampled:	12/04/07
Lab Sample ID:	T19964-9	Date Received:	12/05/07
Matrix:	AQ - Water	Percent Solids:	n/a
Method:	SW846 8260B	Project: Falcon Refinery Superfund Site/Ingleside, TX	

SW-846 8260B

CAS No.	Compound	Result	MQL	SDL	Units	Q
10061-02-6	trans-1,3-Dichloropropene	0.00036 U	0.0020	0.00036	mg/l	
100-41-4	Ethylbenzene	0.00045 U	0.0020	0.00045	mg/l	
60-29-7	Ethyl Ether	0.0020 U	0.0020	0.0020	mg/l	
110-54-3	hexane	0.00061 U	0.0020	0.00061	mg/l	
591-78-6	2-Hexanone	0.0024 U	0.010	0.0024	mg/l	
87-68-3	Hexachlorobutadiene	0.0012 U	0.0020	0.0012	mg/l	
98-82-8	Isopropylbenzene	0.00041 U	0.0020	0.00041	mg/l	
99-87-6	p-Isopropyltoluene	0.00040 U	0.0020	0.00040	mg/l	
108-10-1	4-Methyl-2-pentanone	0.0025 U	0.010	0.0025	mg/l	
74-83-9	Methyl bromide	0.00054 U	0.0020	0.00054	mg/l	
74-87-3	Methyl chloride	0.00042 U	0.0020	0.00042	mg/l	
74-95-3	Methylene bromide	0.00041 U	0.0020	0.00041	mg/l	
75-09-2	Methylene chloride	0.00041 U	0.0050	0.00041	mg/l	
78-93-3	Methyl ethyl ketone	0.0025 U	0.010	0.0025	mg/l	
103-65-1	n-Propylbenzene	0.00051 U	0.0020	0.00051	mg/l	
100-42-5	Styrene	0.00035 U	0.0020	0.00035	mg/l	
630-20-6	1,1,1,2-Tetrachloroethane	0.00037 U	0.0020	0.00037	mg/l	
71-55-6	1,1,1-Trichloroethane	0.00047 U	0.0020	0.00047	mg/l	
79-34-5	1,1,2,2-Tetrachloroethane	0.00042 U	0.0020	0.00042	mg/l	
79-00-5	1,1,2-Trichloroethane	0.00044 U	0.0020	0.00044	mg/l	
87-61-6	1,2,3-Trichlorobenzene	0.00043 U	0.0020	0.00043	mg/l	
96-18-4	1,2,3-Trichloropropane	0.00069 U	0.0020	0.00069	mg/l	
120-82-1	1,2,4-Trichlorobenzene	0.00053 U	0.0020	0.00053	mg/l	
95-63-6	1,2,4-Trimethylbenzene	0.00046 U	0.0020	0.00046	mg/l	
108-67-8	1,3,5-Trimethylbenzene	0.00044 U	0.0020	0.00044	mg/l	
127-18-4	Tetrachloroethylene	0.00050 U	0.0020	0.00050	mg/l	
108-88-3	Toluene	0.00048 U	0.0020	0.00048	mg/l	
79-01-6	Trichloroethylene	0.00047 U	0.0020	0.00047	mg/l	
75-69-4	Trichlorofluoromethane	0.00047 U	0.0020	0.00047	mg/l	
75-01-4	Vinyl chloride	0.00042 U	0.0020	0.00042	mg/l	
108-05-4	Vinyl Acetate	0.0023 U	0.010	0.0023	mg/l	
1330-20-7	Xylene (total)	0.0060 U	0.0060		mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	98%		76-125%
17060-07-0	1,2-Dichloroethane-D4	103%		69-128%
2037-26-5	Toluene-D8	103%		80-121%
460-00-4	4-Bromofluorobenzene	112%		69-142%

U = Not detected SDL - Sample Detection Limit

J = Indicates an estimated value

MQL = Method Quantitation Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 3

63

3

Client Sample ID:	FR-107	Date Sampled:	12/04/07
Lab Sample ID:	T19964-9	Date Received:	12/05/07
Matrix:	AQ - Water	Percent Solids:	n/a
Method:	SW846 8270C SW846 3510C		
Project:	Falcon Refinery Superfund Site/Ingleside, TX		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
	H24669.D	1	12/09/07	SC	12/08/07	OP8660	EH1386
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

SW-846 8270C

CAS No.	Compound	Result	MQL	SDL	Units	Q
108-98-5	Benzenethiol	0.010 U	0.010	0.010	mg/l	
65-85-0	Benzoic Acid	0.00058 U	0.010	0.00058	mg/l	
95-57-8	2-Chlorophenol	0.0014 U	0.0050	0.0014	mg/l	
59-50-7	4-Chloro-3-methyl phenol	0.0012 U	0.0050	0.0012	mg/l	
120-83-2	2,4-Dichlorophenol	0.0018 U	0.0050	0.0018	mg/l	
105-67-9	2,4-Dimethylphenol	0.0026 U	0.0050	0.0026	mg/l	
51-28-5	2,4-Dinitrophenol	0.0024 U	0.025	0.0024	mg/l	
534-52-1	4,6-Dinitro-o-cresol	0.0039 U	0.010	0.0039	mg/l	
95-48-7	2-Methylphenol	0.0012 U	0.0050	0.0012	mg/l	
	3&4-Methylphenol	0.0011 U	0.0050	0.0011	mg/l	
100-02-7	4-Nitrophenol	0.0017 U	0.025	0.0017	mg/l	
87-86-5	Pentachlorophenol	0.0040 U	0.025	0.0040	mg/l	
108-95-2	Phenol	0.00052 U	0.0050	0.00052	mg/l	
95-95-4	2,4,5-Trichlorophenol	0.0018 U	0.0050	0.0018	mg/l	
88-06-2	2,4,6-Trichlorophenol	0.0015 U	0.0050	0.0015	mg/l	
83-32-9	Acenaphthene	0.0015 U	0.0050	0.0015	mg/l	
208-96-8	Acenaphthylene	0.0016 U	0.0050	0.0016	mg/l	
120-12-7	Anthracene	0.0018 U	0.0050	0.0018	mg/l	
191-24-2	Benzo(g,h,i)perylene	0.0025 U	0.0050	0.0025	mg/l	
101-55-3	4-Bromophenyl phenyl ether	0.0021 U	0.0050	0.0021	mg/l	
85-68-7	Butyl benzyl phthalate	0.0017 U	0.0050	0.0017	mg/l	
100-51-6	Benzyl Alcohol	0.0019 U	0.0050	0.0019	mg/l	
91-58-7	2-Chloronaphthalene	0.0012 U	0.0050	0.0012	mg/l	
106-47-8	4-Chloroaniline	0.0016 U	0.0050	0.0016	mg/l	
86-74-8	Carbazole	0.0017 U	0.0050	0.0017	mg/l	
218-01-9	Chrysene	0.0013 U	0.0050	0.0013	mg/l	
111-91-1	bis(2-Chloroethoxy)methane	0.0016 U	0.0050	0.0016	mg/l	
111-44-4	bis(2-Chloroethyl)ether	0.0012 U	0.0050	0.0012	mg/l	
7005-72-3	4-Chlorophenyl phenyl ether	0.0015 U	0.0050	0.0015	mg/l	
95-50-1	1,2-Dichlorobenzene	0.0016 U	0.0050	0.0016	mg/l	
541-73-1	1,3-Dichlorobenzene	0.0016 U	0.0050	0.0016	mg/l	
106-46-7	1,4-Dichlorobenzene	0.0015 U	0.0050	0.0015	mg/l	

U = Not detected SDL - Sample Detection Limit

J = Indicates an estimated value

MQL = Method Quantitation Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	FR-107	Date Sampled:	12/04/07
Lab Sample ID:	T19964-9	Date Received:	12/05/07
Matrix:	AQ - Water	Percent Solids:	n/a
Method:	SW846 8270C SW846 3510C		
Project:	Falcon Refinery Superfund Site/Ingleside, TX		

SW-846 8270C

CAS No.	Compound	Result	MQL	SDL	Units	Q
121-14-2	2,4-Dinitrotoluene	0.0024 U	0.0050	0.0024	mg/l	
606-20-2	2,6-Dinitrotoluene	0.0017 U	0.0050	0.0017	mg/l	
91-94-1	3,3'-Dichlorobenzidine	0.0037 U	0.010	0.0037	mg/l	
57-97-6	7,12-Dimethylbenz(a)anthracene	0.0050 U	0.0050	0.0050	mg/l	
226-36-8	Dibenz(a,h)acridine	0.0010 U	0.0050	0.0010	mg/l	
53-70-3	Dibenzo(a,h)anthracene	0.0013 U	0.0050	0.0013	mg/l	
132-64-9	Dibenzofuran	0.0023 U	0.0050	0.0023	mg/l	
122-39-4	Diphenylamine	0.0019 U	0.0050	0.0019	mg/l	
84-74-2	Di-n-butyl phthalate	0.0016 U	0.0050	0.0016	mg/l	
117-84-0	Di-n-octyl phthalate	0.0013 U	0.0050	0.0013	mg/l	
84-66-2	Diethyl phthalate	0.0011 U	0.0050	0.0011	mg/l	
131-11-3	Dimethyl phthalate	0.0018 U	0.0050	0.0018	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	0.0015 U	0.0050	0.0015	mg/l	
206-44-0	Fluoranthene	0.0016 U	0.0050	0.0016	mg/l	
86-73-7	Fluorene	0.0021 U	0.0050	0.0021	mg/l	
118-74-1	Hexachlorobenzene	0.0019 U	0.0050	0.0019	mg/l	
87-68-3	Hexachlorobutadiene	0.0019 U	0.0050	0.0019	mg/l	
77-47-4	Hexachlorocyclopentadiene	0.0014 U	0.0050	0.0014	mg/l	
67-72-1	Hexachloroethane	0.0017 U	0.0050	0.0017	mg/l	
95-13-6	Indene	0.014 U	0.015	0.014	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	0.0024 U	0.0050	0.0024	mg/l	
78-59-1	Isophorone	0.0012 U	0.0050	0.0012	mg/l	
90-12-0	1-Methylnaphthalene	0.0017 U	0.0050	0.0017	mg/l	
91-57-6	2-Methylnaphthalene	0.0020 U	0.0050	0.0020	mg/l	
	6-Methyl Chrysene	0.0050 U	0.0050	0.0050	mg/l	
88-74-4	2-Nitroaniline	0.0021 U	0.0050	0.0021	mg/l	
99-09-2	3-Nitroaniline	0.0027 U	0.0050	0.0027	mg/l	
100-01-6	4-Nitroaniline	0.0050 U	0.0050	0.0050	mg/l	
91-20-3	Naphthalene	0.0015 U	0.0050	0.0015	mg/l	
98-95-3	Nitrobenzene	0.0014 U	0.0050	0.0014	mg/l	
621-64-7	N-Nitroso-di-n-propylamine	0.0017 U	0.0050	0.0017	mg/l	
86-30-6	N-Nitrosodiphenylamine	0.0019 U	0.0050	0.0019	mg/l	
85-01-8	Phenanthrene	0.0016 U	0.0050	0.0016	mg/l	
129-00-0	Pyrene	0.0011 U	0.0050	0.0011	mg/l	
91-22-5	Quinoline	0.0010 U	0.0050	0.0010	mg/l	
120-82-1	1,2,4-Trichlorobenzene	0.0010 U	0.0050	0.0010	mg/l	
98-85-1	1-Phenylethanol	0.0050 U	0.0050	0.0050	mg/l	
931-17-9	1,2-Cyclohexanediol	0.0050 U	0.0050	0.0050	mg/l	
	1,3&1,4-Cyclohexanediol	0.0050 U	0.0050	0.0050	mg/l	

U = Not detected SDL - Sample Detection Limit
 MQL = Method Quantitation Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Page 3 of 3

63

3

Client Sample ID:	FR-107	Date Sampled:	12/04/07
Lab Sample ID:	T19964-9	Date Received:	12/05/07
Matrix:	AQ - Water	Percent Solids:	n/a
Method:	SW846 8270C SW846 3510C		
Project:	Falcon Refinery Superfund Site/Ingleside, TX		

SW-846 8270C

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	24%		10-66%
4165-62-2	Phenol-d5	21%		10-53%
118-79-6	2,4,6-Tribromophenol	86%		32-128%
4165-60-0	Nitrobenzene-d5	40%		29-115%
321-60-8	2-Fluorobiphenyl	60%		34-113%
1718-51-0	Terphenyl-d14	71%		12-145%

U = Not detected SDL - Sample Detection Limit
 MQL = Method Quantitation Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 1

63

3

Client Sample ID:	FR-107	Date Sampled:	12/04/07
Lab Sample ID:	T19964-9	Date Received:	12/05/07
Matrix:	AQ - Water	Percent Solids:	n/a
Method:	SW846 8270C BY SIM SW846 3510C		
Project:	Falcon Refinery Superfund Site/Ingleside, TX		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	A24740.D	1	12/09/07	SC	12/08/07	OP8671	EA1538
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	MQL	SDL	Units	Q
56-55-3	Benzo(a)anthracene	0.000055 U	0.00020	0.000055	mg/l	
50-32-8	Benzo(a)pyrene	0.000099 U	0.00020	0.000099	mg/l	
205-99-2	Benzo(b)fluoranthene	0.000056 U	0.00020	0.000056	mg/l	
207-08-9	Benzo(k)fluoranthene	0.000046 U	0.00020	0.000046	mg/l	

U = Not detected SDL - Sample Detection Limit
 MQL = Method Quantitation Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 1

63

3

Client Sample ID:	FR-107	Date Sampled:	12/04/07
Lab Sample ID:	T19964-9	Date Received:	12/05/07
Matrix:	AQ - Water	Percent Solids:	n/a
Project:	Falcon Refinery Superfund Site/Ingleside, TX		

Metals Analysis

Analyte	Result	MQL	SDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Aluminum	86 U	200	86	ug/l	1	12/13/07	12/13/07	NS	SW846 6010B ¹
Antimony	2.7 U	5.0	2.7	ug/l	1	12/13/07	12/13/07	NS	SW846 6010B ¹
Arsenic	9.5	5.0	2.7	ug/l	1	12/13/07	12/13/07	NS	SW846 6010B ¹
Barium	322	200	2.4	ug/l	1	12/13/07	12/13/07	NS	SW846 6010B ¹
Beryllium	0.26 U	5.0	0.26	ug/l	1	12/13/07	12/13/07	NS	SW846 6010B ¹
Cadmium	1.8 U	4.0	1.8	ug/l	1	12/13/07	12/13/07	NS	SW846 6010B ¹
Calcium	119000	5000	170	ug/l	1	12/13/07	12/13/07	NS	SW846 6010B ¹
Chromium	1.5 U	10	1.5	ug/l	1	12/13/07	12/13/07	NS	SW846 6010B ¹
Cobalt	9.6 U	50	9.6	ug/l	1	12/13/07	12/13/07	NS	SW846 6010B ¹
Copper	5.9 U	25	5.9	ug/l	1	12/13/07	12/13/07	NS	SW846 6010B ¹
Iron	1960	100	24	ug/l	1	12/13/07	12/13/07	NS	SW846 6010B ¹
Lead	2.8 U	3.0	2.8	ug/l	1	12/13/07	12/13/07	NS	SW846 6010B ¹
Magnesium	58100	5000	13	ug/l	1	12/13/07	12/13/07	NS	SW846 6010B ¹
Manganese	2150	15	4.1	ug/l	1	12/13/07	12/13/07	NS	SW846 6010B ¹
Mercury	0.094 U	0.20	0.094	ug/l	1	12/14/07	12/14/07	NS	SW846 7470A ³
Nickel	2.6 U	40	2.6	ug/l	1	12/13/07	12/13/07	NS	SW846 6010B ¹
Potassium	16900	5000	160	ug/l	1	12/13/07	12/13/07	NS	SW846 6010B ¹
Selenium	2.3 U	5.0	2.3	ug/l	1	12/13/07	12/13/07	NS	SW846 6010B ¹
Silver	1.1 U	10	1.1	ug/l	1	12/13/07	12/13/07	NS	SW846 6010B ¹
Sodium	793000	25000	1600	ug/l	5	12/13/07	12/14/07	NS	SW846 6010B ²
Thallium	3.7 B	10	2.7	ug/l	1	12/13/07	12/13/07	NS	SW846 6010B ¹
Vanadium	0.94 U	50	0.94	ug/l	1	12/13/07	12/13/07	NS	SW846 6010B ¹
Zinc	12.8 B	20	7.5	ug/l	1	12/13/07	12/13/07	NS	SW846 6010B ¹

- (1) Instrument QC Batch: MA3274
- (2) Instrument QC Batch: MA3278
- (3) Instrument QC Batch: MA3279
- (4) Prep QC Batch: MP7028
- (5) Prep QC Batch: MP7036

MQL = Method Quantitation Limit
 SDL = Sample Detection Limit

U = Indicates a result < SDL
 B = Indicates a result >= SDL but < MQL

Report of Analysis

Page 1 of 1

63

3

Client Sample ID:	FR-107	Date Sampled:	12/04/07
Lab Sample ID:	T19964-9	Date Received:	12/05/07
Matrix:	AQ - Water	Percent Solids:	n/a
Project:	Falcon Refinery Superfund Site/Ingleside, TX		

General Chemistry

Analyte	Result	MQL	SDL	Units	DF	Analyzed	By	Method
Chromium, Hexavalent	0.0040 U	0.010	0.0040	mg/l	1	12/05/07 07:20	SS	SW846 7196A

MQL = Method Quantitation Limit
SDL = Sample Detection Limit

U = Indicates a result < SDL
B = Indicates a result > = SDL but < MQL

Report of Analysis

Page 1 of 2

3.10

3

Client Sample ID: FR-108
Lab Sample ID: T19964-10
Matrix: AQ - Water
Method: SW846 8260B
Project: Falcon Refinery Superfund Site/Ingleside, TX

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #2	F0088672.D	1	12/09/07	ZLH	n/a	n/a	VF2797

Purge Volume
 Run #1 5.0 ml
 Run #2

SW-846 8260B

CAS No.	Compound	Result	MQL	SDL	Units	Q
67-64-1	Acetone	0.0059	0.050	0.0026	mg/l	J
71-43-2	Benzene	0.00046 U	0.0020	0.00046	mg/l	
108-86-1	Bromobenzene	0.00042 U	0.0020	0.00042	mg/l	
74-97-5	Bromochloromethane	0.00049 U	0.0020	0.00049	mg/l	
75-27-4	Bromodichloromethane	0.00042 U	0.0020	0.00042	mg/l	
75-25-2	Bromoform	0.0014 U	0.0020	0.0014	mg/l	
71-36-3	n-Butyl Alcohol	0.020 U	0.020	0.020	mg/l	
104-51-8	n-Butylbenzene	0.00055 U	0.0020	0.00055	mg/l	
98-06-6	tert-Butylbenzene	0.00083 U	0.0020	0.00083	mg/l	
108-90-7	Chlorobenzene	0.00042 U	0.0020	0.00042	mg/l	
75-00-3	Chloroethane	0.00039 U	0.0020	0.00039	mg/l	
67-66-3	Chloroform	0.00054 U	0.0020	0.00054	mg/l	
95-49-8	o-Chlorotoluene	0.00038 U	0.0020	0.00038	mg/l	
106-43-4	p-Chlorotoluene	0.00050 U	0.0020	0.00050	mg/l	
75-15-0	Carbon disulfide	0.00051 U	0.0020	0.00051	mg/l	
56-23-5	Carbon tetrachloride	0.00045 U	0.0020	0.00045	mg/l	
110-82-7	Cyclohexane	0.00053 U	0.0020	0.00053	mg/l	
75-34-3	1,1-Dichloroethane	0.00041 U	0.0020	0.00041	mg/l	
75-35-4	1,1-Dichloroethylene	0.00048 U	0.0020	0.00048	mg/l	
563-58-6	1,1-Dichloropropene	0.00035 U	0.0020	0.00035	mg/l	
96-12-8	1,2-Dibromo-3-chloropropane	0.0011 U	0.0020	0.0011	mg/l	
106-93-4	1,2-Dibromoethane	0.00047 U	0.0020	0.00047	mg/l	
107-06-2	1,2-Dichloroethane	0.00050 U	0.0020	0.00050	mg/l	
78-87-5	1,2-Dichloropropane	0.00053 U	0.0020	0.00053	mg/l	
142-28-9	1,3-Dichloropropane	0.00041 U	0.0020	0.00041	mg/l	
123-91-1	1,4-Dioxane	0.13 U	0.25	0.13	mg/l	
594-20-7	2,2-Dichloropropane	0.00058 U	0.0020	0.00058	mg/l	
124-48-1	Dibromochloromethane	0.00046 U	0.0020	0.00046	mg/l	
75-71-8	Dichlorodifluoromethane	0.00053 U	0.0020	0.00053	mg/l	
156-59-2	cis-1,2-Dichloroethylene	0.00043 U	0.0020	0.00043	mg/l	
10061-01-5	cis-1,3-Dichloropropene	0.00053 U	0.0020	0.00053	mg/l	
156-60-5	trans-1,2-Dichloroethylene	0.00046 U	0.0020	0.00046	mg/l	

U = Not detected SDL - Sample Detection Limit

MQL = Method Quantitation Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	FR-108	Date Sampled:	12/04/07
Lab Sample ID:	T19964-10	Date Received:	12/05/07
Matrix:	AQ - Water	Percent Solids:	n/a
Method:	SW846 8260B	Project: Falcon Refinery Superfund Site/Ingleside, TX	

SW-846 8260B

CAS No.	Compound	Result	MQL	SDL	Units	Q
10061-02-6	trans-1,3-Dichloropropene	0.00036 U	0.0020	0.00036	mg/l	
100-41-4	Ethylbenzene	0.00045 U	0.0020	0.00045	mg/l	
60-29-7	Ethyl Ether	0.0020 U	0.0020	0.0020	mg/l	
110-54-3	hexane	0.00061 U	0.0020	0.00061	mg/l	
591-78-6	2-Hexanone	0.0024 U	0.010	0.0024	mg/l	
87-68-3	Hexachlorobutadiene	0.0012 U	0.0020	0.0012	mg/l	
98-82-8	Isopropylbenzene	0.00041 U	0.0020	0.00041	mg/l	
99-87-6	p-Isopropyltoluene	0.00040 U	0.0020	0.00040	mg/l	
108-10-1	4-Methyl-2-pentanone	0.0025 U	0.010	0.0025	mg/l	
74-83-9	Methyl bromide	0.00054 U	0.0020	0.00054	mg/l	
74-87-3	Methyl chloride	0.00042 U	0.0020	0.00042	mg/l	
74-95-3	Methylene bromide	0.00041 U	0.0020	0.00041	mg/l	
75-09-2	Methylene chloride	0.00041 U	0.0050	0.00041	mg/l	
78-93-3	Methyl ethyl ketone	0.0025 U	0.010	0.0025	mg/l	
103-65-1	n-Propylbenzene	0.00051 U	0.0020	0.00051	mg/l	
100-42-5	Styrene	0.00035 U	0.0020	0.00035	mg/l	
630-20-6	1,1,1,2-Tetrachloroethane	0.00037 U	0.0020	0.00037	mg/l	
71-55-6	1,1,1-Trichloroethane	0.00047 U	0.0020	0.00047	mg/l	
79-34-5	1,1,2,2-Tetrachloroethane	0.00042 U	0.0020	0.00042	mg/l	
79-00-5	1,1,2-Trichloroethane	0.00044 U	0.0020	0.00044	mg/l	
87-61-6	1,2,3-Trichlorobenzene	0.00043 U	0.0020	0.00043	mg/l	
96-18-4	1,2,3-Trichloropropane	0.00069 U	0.0020	0.00069	mg/l	
120-82-1	1,2,4-Trichlorobenzene	0.00053 U	0.0020	0.00053	mg/l	
95-63-6	1,2,4-Trimethylbenzene	0.00046 U	0.0020	0.00046	mg/l	
108-67-8	1,3,5-Trimethylbenzene	0.00044 U	0.0020	0.00044	mg/l	
127-18-4	Tetrachloroethylene	0.00050 U	0.0020	0.00050	mg/l	
108-88-3	Toluene	0.00048 U	0.0020	0.00048	mg/l	
79-01-6	Trichloroethylene	0.00047 U	0.0020	0.00047	mg/l	
75-69-4	Trichlorofluoromethane	0.00047 U	0.0020	0.00047	mg/l	
75-01-4	Vinyl chloride	0.00042 U	0.0020	0.00042	mg/l	
108-05-4	Vinyl Acetate	0.0023 U	0.010	0.0023	mg/l	
1330-20-7	Xylene (total)	0.0060 U	0.0060		mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	99%		76-125%
17060-07-0	1,2-Dichloroethane-D4	102%		69-128%
2037-26-5	Toluene-D8	105%		80-121%
460-00-4	4-Bromofluorobenzene	114%		69-142%

U = Not detected SDL - Sample Detection Limit

J = Indicates an estimated value

MQL = Method Quantitation Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 3

3.10

3

Client Sample ID:	FR-108	Date Sampled:	12/04/07
Lab Sample ID:	T19964-10	Date Received:	12/05/07
Matrix:	AQ - Water	Percent Solids:	n/a
Method:	SW846 8270C SW846 3510C		
Project:	Falcon Refinery Superfund Site/Ingleside, TX		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
	H24670.D	1	12/09/07	SC	12/08/07	OP8660	EH1386
Run #2							

Run #1	Initial Volume	Final Volume
	1000 ml	1.0 ml
Run #2		

SW-846 8270C

CAS No.	Compound	Result	MQL	SDL	Units	Q
108-98-5	Benzenethiol	0.010 U	0.010	0.010	mg/l	
65-85-0	Benzoic Acid	0.00058 U	0.010	0.00058	mg/l	
95-57-8	2-Chlorophenol	0.0014 U	0.0050	0.0014	mg/l	
59-50-7	4-Chloro-3-methyl phenol	0.0012 U	0.0050	0.0012	mg/l	
120-83-2	2,4-Dichlorophenol	0.0018 U	0.0050	0.0018	mg/l	
105-67-9	2,4-Dimethylphenol	0.0026 U	0.0050	0.0026	mg/l	
51-28-5	2,4-Dinitrophenol	0.0024 U	0.025	0.0024	mg/l	
534-52-1	4,6-Dinitro-o-cresol	0.0039 U	0.010	0.0039	mg/l	
95-48-7	2-Methylphenol	0.0012 U	0.0050	0.0012	mg/l	
	3&4-Methylphenol	0.0011 U	0.0050	0.0011	mg/l	
100-02-7	4-Nitrophenol	0.0017 U	0.025	0.0017	mg/l	
87-86-5	Pentachlorophenol	0.0040 U	0.025	0.0040	mg/l	
108-95-2	Phenol	0.00052 U	0.0050	0.00052	mg/l	
95-95-4	2,4,5-Trichlorophenol	0.0018 U	0.0050	0.0018	mg/l	
88-06-2	2,4,6-Trichlorophenol	0.0015 U	0.0050	0.0015	mg/l	
83-32-9	Acenaphthene	0.0015 U	0.0050	0.0015	mg/l	
208-96-8	Acenaphthylene	0.0016 U	0.0050	0.0016	mg/l	
120-12-7	Anthracene	0.0018 U	0.0050	0.0018	mg/l	
191-24-2	Benzo(g,h,i)perylene	0.0025 U	0.0050	0.0025	mg/l	
101-55-3	4-Bromophenyl phenyl ether	0.0021 U	0.0050	0.0021	mg/l	
85-68-7	Butyl benzyl phthalate	0.0017 U	0.0050	0.0017	mg/l	
100-51-6	Benzyl Alcohol	0.0019 U	0.0050	0.0019	mg/l	
91-58-7	2-Chloronaphthalene	0.0012 U	0.0050	0.0012	mg/l	
106-47-8	4-Chloroaniline	0.0016 U	0.0050	0.0016	mg/l	
86-74-8	Carbazole	0.0017 U	0.0050	0.0017	mg/l	
218-01-9	Chrysene	0.0013 U	0.0050	0.0013	mg/l	
111-91-1	bis(2-Chloroethoxy)methane	0.0016 U	0.0050	0.0016	mg/l	
111-44-4	bis(2-Chloroethyl)ether	0.0012 U	0.0050	0.0012	mg/l	
7005-72-3	4-Chlorophenyl phenyl ether	0.0015 U	0.0050	0.0015	mg/l	
95-50-1	1,2-Dichlorobenzene	0.0016 U	0.0050	0.0016	mg/l	
541-73-1	1,3-Dichlorobenzene	0.0016 U	0.0050	0.0016	mg/l	
106-46-7	1,4-Dichlorobenzene	0.0015 U	0.0050	0.0015	mg/l	

U = Not detected SDL - Sample Detection Limit

J = Indicates an estimated value

MQL = Method Quantitation Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	FR-108	Date Sampled:	12/04/07
Lab Sample ID:	T19964-10	Date Received:	12/05/07
Matrix:	AQ - Water	Percent Solids:	n/a
Method:	SW846 8270C SW846 3510C		
Project:	Falcon Refinery Superfund Site/Ingleside, TX		

SW-846 8270C

CAS No.	Compound	Result	MQL	SDL	Units	Q
121-14-2	2,4-Dinitrotoluene	0.0024 U	0.0050	0.0024	mg/l	
606-20-2	2,6-Dinitrotoluene	0.0017 U	0.0050	0.0017	mg/l	
91-94-1	3,3'-Dichlorobenzidine	0.0037 U	0.010	0.0037	mg/l	
57-97-6	7,12-Dimethylbenz(a)anthracene	0.0050 U	0.0050	0.0050	mg/l	
226-36-8	Dibenz(a,h)acridine	0.0010 U	0.0050	0.0010	mg/l	
53-70-3	Dibenzo(a,h)anthracene	0.0013 U	0.0050	0.0013	mg/l	
132-64-9	Dibenzofuran	0.0023 U	0.0050	0.0023	mg/l	
122-39-4	Diphenylamine	0.0019 U	0.0050	0.0019	mg/l	
84-74-2	Di-n-butyl phthalate	0.0016 U	0.0050	0.0016	mg/l	
117-84-0	Di-n-octyl phthalate	0.0013 U	0.0050	0.0013	mg/l	
84-66-2	Diethyl phthalate	0.0011 U	0.0050	0.0011	mg/l	
131-11-3	Dimethyl phthalate	0.0018 U	0.0050	0.0018	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	0.0015 U	0.0050	0.0015	mg/l	
206-44-0	Fluoranthene	0.0016 U	0.0050	0.0016	mg/l	
86-73-7	Fluorene	0.0021 U	0.0050	0.0021	mg/l	
118-74-1	Hexachlorobenzene	0.0019 U	0.0050	0.0019	mg/l	
87-68-3	Hexachlorobutadiene	0.0019 U	0.0050	0.0019	mg/l	
77-47-4	Hexachlorocyclopentadiene	0.0014 U	0.0050	0.0014	mg/l	
67-72-1	Hexachloroethane	0.0017 U	0.0050	0.0017	mg/l	
95-13-6	Indene	0.014 U	0.015	0.014	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	0.0024 U	0.0050	0.0024	mg/l	
78-59-1	Isophorone	0.0012 U	0.0050	0.0012	mg/l	
90-12-0	1-Methylnaphthalene	0.0017 U	0.0050	0.0017	mg/l	
91-57-6	2-Methylnaphthalene	0.0020 U	0.0050	0.0020	mg/l	
	6-Methyl Chrysene	0.0050 U	0.0050	0.0050	mg/l	
88-74-4	2-Nitroaniline	0.0021 U	0.0050	0.0021	mg/l	
99-09-2	3-Nitroaniline	0.0027 U	0.0050	0.0027	mg/l	
100-01-6	4-Nitroaniline	0.0050 U	0.0050	0.0050	mg/l	
91-20-3	Naphthalene	0.0015 U	0.0050	0.0015	mg/l	
98-95-3	Nitrobenzene	0.0014 U	0.0050	0.0014	mg/l	
621-64-7	N-Nitroso-di-n-propylamine	0.0017 U	0.0050	0.0017	mg/l	
86-30-6	N-Nitrosodiphenylamine	0.0019 U	0.0050	0.0019	mg/l	
85-01-8	Phenanthrene	0.0016 U	0.0050	0.0016	mg/l	
129-00-0	Pyrene	0.0011 U	0.0050	0.0011	mg/l	
91-22-5	Quinoline	0.0010 U	0.0050	0.0010	mg/l	
120-82-1	1,2,4-Trichlorobenzene	0.0010 U	0.0050	0.0010	mg/l	
98-85-1	1-Phenylethanol	0.0050 U	0.0050	0.0050	mg/l	
931-17-9	1,2-Cyclohexanediol	0.0050 U	0.0050	0.0050	mg/l	
	1,3&1,4-Cyclohexanediol	0.0050 U	0.0050	0.0050	mg/l	

U = Not detected

SDL - Sample Detection Limit

J = Indicates an estimated value

MQL = Method Quantitation Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 3 of 3

3.10
3

Client Sample ID:	FR-108	Date Sampled:	12/04/07
Lab Sample ID:	T19964-10	Date Received:	12/05/07
Matrix:	AQ - Water	Percent Solids:	n/a
Method:	SW846 8270C SW846 3510C		
Project:	Falcon Refinery Superfund Site/Ingleside, TX		

SW-846 8270C

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	27%		10-66%
4165-62-2	Phenol-d5	18%		10-53%
118-79-6	2,4,6-Tribromophenol	54%		32-128%
4165-60-0	Nitrobenzene-d5	48%		29-115%
321-60-8	2-Fluorobiphenyl	52%		34-113%
1718-51-0	Terphenyl-d14	56%		12-145%

U = Not detected SDL - Sample Detection Limit
 MQL = Method Quantitation Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 1

3.10

3

Client Sample ID:	FR-108	Date Sampled:	12/04/07
Lab Sample ID:	T19964-10	Date Received:	12/05/07
Matrix:	AQ - Water	Percent Solids:	n/a
Method:	SW846 8270C BY SIM SW846 3510C		
Project:	Falcon Refinery Superfund Site/Ingleside, TX		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	A24741.D	1	12/09/07	SC	12/08/07	OP8671	EA1538
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	MQL	SDL	Units	Q
56-55-3	Benzo(a)anthracene	0.000055 U	0.00020	0.000055	mg/l	
50-32-8	Benzo(a)pyrene	0.000099 U	0.00020	0.000099	mg/l	
205-99-2	Benzo(b)fluoranthene	0.000056 U	0.00020	0.000056	mg/l	
207-08-9	Benzo(k)fluoranthene	0.000046 U	0.00020	0.000046	mg/l	

U = Not detected SDL - Sample Detection Limit
 MQL = Method Quantitation Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 1

3.10

3

Client Sample ID:	FR-108	Date Sampled:	12/04/07
Lab Sample ID:	T19964-10	Date Received:	12/05/07
Matrix:	AQ - Water	Percent Solids:	n/a
Project:	Falcon Refinery Superfund Site/Ingleside, TX		

Metals Analysis

Analyte	Result	MQL	SDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Aluminum	86 U	200	86	ug/l	1	12/13/07	12/13/07	NS	SW846 6010B ¹
Antimony	2.7 U	5.0	2.7	ug/l	1	12/13/07	12/13/07	NS	SW846 6010B ¹
Arsenic	2.7 U	5.0	2.7	ug/l	1	12/13/07	12/13/07	NS	SW846 6010B ¹
Barium	2.7 B	200	2.4	ug/l	1	12/13/07	12/13/07	NS	SW846 6010B ¹
Beryllium	0.26 U	5.0	0.26	ug/l	1	12/13/07	12/13/07	NS	SW846 6010B ¹
Cadmium	1.8 U	4.0	1.8	ug/l	1	12/13/07	12/13/07	NS	SW846 6010B ¹
Calcium	9070	5000	170	ug/l	1	12/13/07	12/13/07	NS	SW846 6010B ¹
Chromium	1.5 U	10	1.5	ug/l	1	12/13/07	12/13/07	NS	SW846 6010B ¹
Cobalt	9.6 U	50	9.6	ug/l	1	12/13/07	12/13/07	NS	SW846 6010B ¹
Copper	5.9 U	25	5.9	ug/l	1	12/13/07	12/13/07	NS	SW846 6010B ¹
Iron	24 U	100	24	ug/l	1	12/13/07	12/13/07	NS	SW846 6010B ¹
Lead	3.0	3.0	2.8	ug/l	1	12/13/07	12/13/07	NS	SW846 6010B ¹
Magnesium	1560 B	5000	13	ug/l	1	12/13/07	12/13/07	NS	SW846 6010B ¹
Manganese	13.0 B	15	4.1	ug/l	1	12/13/07	12/13/07	NS	SW846 6010B ¹
Mercury	0.094 U	0.20	0.094	ug/l	1	12/14/07	12/14/07	NS	SW846 7470A ²
Nickel	2.6 U	40	2.6	ug/l	1	12/13/07	12/13/07	NS	SW846 6010B ¹
Potassium	160 U	5000	160	ug/l	1	12/13/07	12/13/07	NS	SW846 6010B ¹
Selenium	2.3 U	5.0	2.3	ug/l	1	12/13/07	12/13/07	NS	SW846 6010B ¹
Silver	1.1 U	10	1.1	ug/l	1	12/13/07	12/13/07	NS	SW846 6010B ¹
Sodium	5750	5000	330	ug/l	1	12/13/07	12/13/07	NS	SW846 6010B ¹
Thallium	4.2 B	10	2.7	ug/l	1	12/13/07	12/13/07	NS	SW846 6010B ¹
Vanadium	0.94 U	50	0.94	ug/l	1	12/13/07	12/13/07	NS	SW846 6010B ¹
Zinc	16.5 B	20	7.5	ug/l	1	12/13/07	12/13/07	NS	SW846 6010B ¹

(1) Instrument QC Batch: MA3274

(2) Instrument QC Batch: MA3279

(3) Prep QC Batch: MP7028

(4) Prep QC Batch: MP7036

MQL = Method Quantitation Limit
 SDL = Sample Detection Limit

U = Indicates a result < SDL
 B = Indicates a result >= SDL but < MQL

Report of Analysis

Page 1 of 1

3.10

3

Client Sample ID:	FR-108	Date Sampled:	12/04/07
Lab Sample ID:	T19964-10	Date Received:	12/05/07
Matrix:	AQ - Water	Percent Solids:	n/a
Project:	Falcon Refinery Superfund Site/Ingleside, TX		

General Chemistry

Analyte	Result	MQL	SDL	Units	DF	Analyzed	By	Method
Chromium, Hexavalent	0.0040 U	0.010	0.0040	mg/l	1	12/05/07 07:20	SS	SW846 7196A

MQL = Method Quantitation Limit
SDL = Sample Detection Limit

U = Indicates a result < SDL
B = Indicates a result > = SDL but < MQL

Report of Analysis

Page 1 of 2

3.11
3

Client Sample ID: TRIP BLANK
Lab Sample ID: T19964-11
Matrix: AQ - Trip Blank Soil
Method: SW846 8260B
Project: Falcon Refinery Superfund Site/Ingleside, TX

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	F0088663.D	1	12/09/07	ZLH	n/a	n/a	VF2797
Run #2							

Purge Volume
 Run #1 5.0 ml
 Run #2

SW-846 8260B

CAS No.	Compound	Result	MQL	SDL	Units	Q
67-64-1	Acetone	0.0033	0.050	0.0026	mg/l	J
71-43-2	Benzene	0.00046 U	0.0020	0.00046	mg/l	
108-86-1	Bromobenzene	0.00042 U	0.0020	0.00042	mg/l	
74-97-5	Bromochloromethane	0.00049 U	0.0020	0.00049	mg/l	
75-27-4	Bromodichloromethane	0.00042 U	0.0020	0.00042	mg/l	
75-25-2	Bromoform	0.0014 U	0.0020	0.0014	mg/l	
71-36-3	n-Butyl Alcohol	0.020 U	0.020	0.020	mg/l	
104-51-8	n-Butylbenzene	0.00055 U	0.0020	0.00055	mg/l	
98-06-6	tert-Butylbenzene	0.00083 U	0.0020	0.00083	mg/l	
108-90-7	Chlorobenzene	0.00042 U	0.0020	0.00042	mg/l	
75-00-3	Chloroethane	0.00039 U	0.0020	0.00039	mg/l	
67-66-3	Chloroform	0.00054 U	0.0020	0.00054	mg/l	
95-49-8	o-Chlorotoluene	0.00038 U	0.0020	0.00038	mg/l	
106-43-4	p-Chlorotoluene	0.00050 U	0.0020	0.00050	mg/l	
75-15-0	Carbon disulfide	0.00051 U	0.0020	0.00051	mg/l	
56-23-5	Carbon tetrachloride	0.00045 U	0.0020	0.00045	mg/l	
110-82-7	Cyclohexane	0.00053 U	0.0020	0.00053	mg/l	
75-34-3	1,1-Dichloroethane	0.00041 U	0.0020	0.00041	mg/l	
75-35-4	1,1-Dichloroethylene	0.00048 U	0.0020	0.00048	mg/l	
563-58-6	1,1-Dichloropropene	0.00035 U	0.0020	0.00035	mg/l	
96-12-8	1,2-Dibromo-3-chloropropane	0.0011 U	0.0020	0.0011	mg/l	
106-93-4	1,2-Dibromoethane	0.00047 U	0.0020	0.00047	mg/l	
107-06-2	1,2-Dichloroethane	0.00050 U	0.0020	0.00050	mg/l	
78-87-5	1,2-Dichloropropane	0.00053 U	0.0020	0.00053	mg/l	
142-28-9	1,3-Dichloropropane	0.00041 U	0.0020	0.00041	mg/l	
123-91-1	1,4-Dioxane	0.13 U	0.25	0.13	mg/l	
594-20-7	2,2-Dichloropropane	0.00058 U	0.0020	0.00058	mg/l	
124-48-1	Dibromochloromethane	0.00046 U	0.0020	0.00046	mg/l	
75-71-8	Dichlorodifluoromethane	0.00053 U	0.0020	0.00053	mg/l	
156-59-2	cis-1,2-Dichloroethylene	0.00043 U	0.0020	0.00043	mg/l	
10061-01-5	cis-1,3-Dichloropropene	0.00053 U	0.0020	0.00053	mg/l	
156-60-5	trans-1,2-Dichloroethylene	0.00046 U	0.0020	0.00046	mg/l	

U = Not detected SDL - Sample Detection Limit

MQL = Method Quantitation Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 2 of 2

3.11
3

Client Sample ID:	TRIP BLANK	Date Sampled:	12/04/07
Lab Sample ID:	T19964-11	Date Received:	12/05/07
Matrix:	AQ - Trip Blank Soil	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	Falcon Refinery Superfund Site/Ingleside, TX		

SW-846 8260B

CAS No.	Compound	Result	MQL	SDL	Units	Q
10061-02-6	trans-1,3-Dichloropropene	0.00036 U	0.0020	0.00036	mg/l	
100-41-4	Ethylbenzene	0.00045 U	0.0020	0.00045	mg/l	
60-29-7	Ethyl Ether	0.0020 U	0.0020	0.0020	mg/l	
110-54-3	hexane	0.00061 U	0.0020	0.00061	mg/l	
591-78-6	2-Hexanone	0.0024 U	0.010	0.0024	mg/l	
87-68-3	Hexachlorobutadiene	0.0012 U	0.0020	0.0012	mg/l	
98-82-8	Isopropylbenzene	0.00041 U	0.0020	0.00041	mg/l	
99-87-6	p-Isopropyltoluene	0.00040 U	0.0020	0.00040	mg/l	
108-10-1	4-Methyl-2-pentanone	0.0025 U	0.010	0.0025	mg/l	
74-83-9	Methyl bromide	0.00054 U	0.0020	0.00054	mg/l	
74-87-3	Methyl chloride	0.00042 U	0.0020	0.00042	mg/l	
74-95-3	Methylene bromide	0.00041 U	0.0020	0.00041	mg/l	
75-09-2	Methylene chloride	0.00041 U	0.0050	0.00041	mg/l	
78-93-3	Methyl ethyl ketone	0.0025 U	0.010	0.0025	mg/l	
103-65-1	n-Propylbenzene	0.00051 U	0.0020	0.00051	mg/l	
100-42-5	Styrene	0.00035 U	0.0020	0.00035	mg/l	
630-20-6	1,1,1,2-Tetrachloroethane	0.00037 U	0.0020	0.00037	mg/l	
71-55-6	1,1,1-Trichloroethane	0.00047 U	0.0020	0.00047	mg/l	
79-34-5	1,1,2,2-Tetrachloroethane	0.00042 U	0.0020	0.00042	mg/l	
79-00-5	1,1,2-Trichloroethane	0.00044 U	0.0020	0.00044	mg/l	
87-61-6	1,2,3-Trichlorobenzene	0.00043 U	0.0020	0.00043	mg/l	
96-18-4	1,2,3-Trichloropropane	0.00069 U	0.0020	0.00069	mg/l	
120-82-1	1,2,4-Trichlorobenzene	0.00053 U	0.0020	0.00053	mg/l	
95-63-6	1,2,4-Trimethylbenzene	0.00046 U	0.0020	0.00046	mg/l	
108-67-8	1,3,5-Trimethylbenzene	0.00044 U	0.0020	0.00044	mg/l	
127-18-4	Tetrachloroethylene	0.00050 U	0.0020	0.00050	mg/l	
108-88-3	Toluene	0.00048 U	0.0020	0.00048	mg/l	
79-01-6	Trichloroethylene	0.00047 U	0.0020	0.00047	mg/l	
75-69-4	Trichlorofluoromethane	0.00047 U	0.0020	0.00047	mg/l	
75-01-4	Vinyl chloride	0.00042 U	0.0020	0.00042	mg/l	
108-05-4	Vinyl Acetate	0.0023 U	0.010	0.0023	mg/l	
1330-20-7	Xylene (total)	0.0060 U	0.0060		mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	98%		76-125%
17060-07-0	1,2-Dichloroethane-D4	102%		69-128%
2037-26-5	Toluene-D8	103%		80-121%
460-00-4	4-Bromofluorobenzene	114%		69-142%

U = Not detected SDL - Sample Detection Limit
 MQL = Method Quantitation Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 2

3.12

3

Client Sample ID: TRIP BLANK
Lab Sample ID: T19964-12
Matrix: AQ - Trip Blank Water
Method: SW846 8260B
Project: Falcon Refinery Superfund Site/Ingleside, TX

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	F0088662.D	1	12/09/07	ZLH	n/a	n/a	VF2797
Run #2							

Purge Volume	
Run #1	5.0 ml
Run #2	

SW-846 8260B

CAS No.	Compound	Result	MQL	SDL	Units	Q
67-64-1	Acetone	0.0034	0.050	0.0026	mg/l	J
71-43-2	Benzene	0.00046 U	0.0020	0.00046	mg/l	
108-86-1	Bromobenzene	0.00042 U	0.0020	0.00042	mg/l	
74-97-5	Bromochloromethane	0.00049 U	0.0020	0.00049	mg/l	
75-27-4	Bromodichloromethane	0.00042 U	0.0020	0.00042	mg/l	
75-25-2	Bromoform	0.0014 U	0.0020	0.0014	mg/l	
71-36-3	n-Butyl Alcohol	0.020 U	0.020	0.020	mg/l	
104-51-8	n-Butylbenzene	0.00055 U	0.0020	0.00055	mg/l	
98-06-6	tert-Butylbenzene	0.00083 U	0.0020	0.00083	mg/l	
108-90-7	Chlorobenzene	0.00042 U	0.0020	0.00042	mg/l	
75-00-3	Chloroethane	0.00039 U	0.0020	0.00039	mg/l	
67-66-3	Chloroform	0.00054 U	0.0020	0.00054	mg/l	
95-49-8	o-Chlorotoluene	0.00038 U	0.0020	0.00038	mg/l	
106-43-4	p-Chlorotoluene	0.00050 U	0.0020	0.00050	mg/l	
75-15-0	Carbon disulfide	0.00051 U	0.0020	0.00051	mg/l	
56-23-5	Carbon tetrachloride	0.00045 U	0.0020	0.00045	mg/l	
110-82-7	Cyclohexane	0.00053 U	0.0020	0.00053	mg/l	
75-34-3	1,1-Dichloroethane	0.00041 U	0.0020	0.00041	mg/l	
75-35-4	1,1-Dichloroethylene	0.00048 U	0.0020	0.00048	mg/l	
563-58-6	1,1-Dichloropropene	0.00035 U	0.0020	0.00035	mg/l	
96-12-8	1,2-Dibromo-3-chloropropane	0.0011 U	0.0020	0.0011	mg/l	
106-93-4	1,2-Dibromoethane	0.00047 U	0.0020	0.00047	mg/l	
107-06-2	1,2-Dichloroethane	0.00050 U	0.0020	0.00050	mg/l	
78-87-5	1,2-Dichloropropane	0.00053 U	0.0020	0.00053	mg/l	
142-28-9	1,3-Dichloropropane	0.00041 U	0.0020	0.00041	mg/l	
123-91-1	1,4-Dioxane	0.13 U	0.25	0.13	mg/l	
594-20-7	2,2-Dichloropropane	0.00058 U	0.0020	0.00058	mg/l	
124-48-1	Dibromochloromethane	0.00046 U	0.0020	0.00046	mg/l	
75-71-8	Dichlorodifluoromethane	0.00053 U	0.0020	0.00053	mg/l	
156-59-2	cis-1,2-Dichloroethylene	0.00043 U	0.0020	0.00043	mg/l	
10061-01-5	cis-1,3-Dichloropropene	0.00053 U	0.0020	0.00053	mg/l	
156-60-5	trans-1,2-Dichloroethylene	0.00046 U	0.0020	0.00046	mg/l	

U = Not detected SDL - Sample Detection Limit

J = Indicates an estimated value

MQL = Method Quantitation Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 2 of 2

3.12

3

Client Sample ID:	TRIP BLANK	Date Sampled:	12/04/07
Lab Sample ID:	T19964-12	Date Received:	12/05/07
Matrix:	AQ - Trip Blank Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	Falcon Refinery Superfund Site/Ingleside, TX		

SW-846 8260B

CAS No.	Compound	Result	MQL	SDL	Units	Q
10061-02-6	trans-1,3-Dichloropropene	0.00036 U	0.0020	0.00036	mg/l	
100-41-4	Ethylbenzene	0.00045 U	0.0020	0.00045	mg/l	
60-29-7	Ethyl Ether	0.0020 U	0.0020	0.0020	mg/l	
110-54-3	hexane	0.00061 U	0.0020	0.00061	mg/l	
591-78-6	2-Hexanone	0.0024 U	0.010	0.0024	mg/l	
87-68-3	Hexachlorobutadiene	0.0012 U	0.0020	0.0012	mg/l	
98-82-8	Isopropylbenzene	0.00041 U	0.0020	0.00041	mg/l	
99-87-6	p-Isopropyltoluene	0.00040 U	0.0020	0.00040	mg/l	
108-10-1	4-Methyl-2-pentanone	0.0025 U	0.010	0.0025	mg/l	
74-83-9	Methyl bromide	0.00054 U	0.0020	0.00054	mg/l	
74-87-3	Methyl chloride	0.00042 U	0.0020	0.00042	mg/l	
74-95-3	Methylene bromide	0.00041 U	0.0020	0.00041	mg/l	
75-09-2	Methylene chloride	0.00041 U	0.0050	0.00041	mg/l	
78-93-3	Methyl ethyl ketone	0.0025 U	0.010	0.0025	mg/l	
103-65-1	n-Propylbenzene	0.00051 U	0.0020	0.00051	mg/l	
100-42-5	Styrene	0.00035 U	0.0020	0.00035	mg/l	
630-20-6	1,1,1,2-Tetrachloroethane	0.00037 U	0.0020	0.00037	mg/l	
71-55-6	1,1,1-Trichloroethane	0.00047 U	0.0020	0.00047	mg/l	
79-34-5	1,1,2,2-Tetrachloroethane	0.00042 U	0.0020	0.00042	mg/l	
79-00-5	1,1,2-Trichloroethane	0.00044 U	0.0020	0.00044	mg/l	
87-61-6	1,2,3-Trichlorobenzene	0.00043 U	0.0020	0.00043	mg/l	
96-18-4	1,2,3-Trichloropropane	0.00069 U	0.0020	0.00069	mg/l	
120-82-1	1,2,4-Trichlorobenzene	0.00053 U	0.0020	0.00053	mg/l	
95-63-6	1,2,4-Trimethylbenzene	0.00046 U	0.0020	0.00046	mg/l	
108-67-8	1,3,5-Trimethylbenzene	0.00044 U	0.0020	0.00044	mg/l	
127-18-4	Tetrachloroethylene	0.00050 U	0.0020	0.00050	mg/l	
108-88-3	Toluene	0.00048 U	0.0020	0.00048	mg/l	
79-01-6	Trichloroethylene	0.00047 U	0.0020	0.00047	mg/l	
75-69-4	Trichlorofluoromethane	0.00047 U	0.0020	0.00047	mg/l	
75-01-4	Vinyl chloride	0.00042 U	0.0020	0.00042	mg/l	
108-05-4	Vinyl Acetate	0.0023 U	0.010	0.0023	mg/l	
1330-20-7	Xylene (total)	0.0060 U	0.0060		mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	97%		76-125%
17060-07-0	1,2-Dichloroethane-D4	102%		69-128%
2037-26-5	Toluene-D8	102%		80-121%
460-00-4	4-Bromofluorobenzene	112%		69-142%

U = Not detected SDL - Sample Detection Limit
 MQL = Method Quantitation Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound



IT'S ALL IN THE CHEMISTRY



Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody
- LRC Form

CHAIN OF CUSTODY

Page 1 of 1

10165 Harwin, Suite 150 - Houston, TX 77036 - 713-271-4700 fax: 713-271-4770

Client / Reporting Information			Project Information			Requested Analyses			Matrix Codes				
Company Name KLEINFELDER		Project Name / No. Falcon Refinery Superfund Site/Ingleside, Texas											
Project Contact Stephen Halasz Address 3601 Manor Road City Austin, TX Zip 78723		Bill to halasz@kleinfelder.com Invoice Attn:											
Phone No. 512-926-6650		Fax No.			Phone No.			Fax No.					
Samplers's Name PAUL SUPAK, DEBBIE ALANIZ, CHRIS NUNGESESSER		Client Purchase Order #											
Accutest Sample #	Field ID / Point of Collection	Collection		Matrix	# of bottles	Number of preserved bottles						Comments / Remarks	
		Date	Time			HCl	NaOH	HNO3	H2SO4	EVACRIB	NaHSO4		MgCl2
1 FR-099	12/4/07	9:30	S	2			X	X	X			X	
2 FR-100	12/4/07	9:35	S	2			X	X	X			X	
3 FR-101	12/4/07	9:40	S	2			X	X	X			X	
4 FR-102	12/4/07	11:05	S	2			X	X	X			X	
4 FR-102 MS/MSD	12/4/07	11:10	S	2			X	X	X			X	
5 FR-103	12/4/07	11:15	S	2			X	X	X			X	
6 FR-104	12/4/07	11:30	W	7	3	1		3	X	X	X	X	
7 FR-105	12/4/07	2:50	S	2			X	X	X			X	
8 FR-106	12/4/07	2:55	S	2			X	X	X			X	
9 FR-107	12/4/07	3:12	W	7	3	1		3	X	X	X	X	
Turnaround Time (CAL days)		Data Deliverable Information											
<input checked="" type="checkbox"/> 12 Day STANDARD <input type="checkbox"/> 5 Day RUSH <input type="checkbox"/> 4 Day RUSH <input type="checkbox"/> 3 Day EMERGENCY <input type="checkbox"/> 2 Day EMERGENCY <input type="checkbox"/> 1 Day EMERGENCY <input type="checkbox"/> Other		Approved By: Date: _____ <input type="checkbox"/> Commercial "A" <input type="checkbox"/> Commercial "B" <input type="checkbox"/> Reduced Tier 1 <input type="checkbox"/> Full Data Package						<input type="checkbox"/> State Forms <input type="checkbox"/> EDD Format <input checked="" type="checkbox"/> TRRP Commercial "A" = Results Only Commercial "B" = Results & Standard QC					
Real time analytical data available via Lablink													
SAMPLE CUSTODY MUST BE DOCUMENTED PERIODICALLY EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY													
Relinquished by Sampler: 1 Paul Supak	Date Time: 12/4/07	Received By: 1 Paul Supak	Relinquished By: 2	Date Time: 12/4/07	Received By: 2								
Relinquished by: 3	Date Time: 12/4/07	Received By: 3	Relinquished By: 4	Date Time: 12/4/07	Received By: 4								
Relinquished by: 5	Date Time: 12/5/07	Received By: 5	Custody Seal #	Preserved where applicable			On Ice	Cooler Temp.					

4.1
4

T19964: Chain of Custody
Page 1 of 3

CHAIN OF CUSTODY

10165 Harwin, Suite 150 - Houston, TX 77036 - 713-271-4700 fax: 713-271-4770

Page 1 of 1

Client / Reporting Information			Project Information			Requested Analyses			Matrix Codes							
Company Name KLEINFELDER			Project Name / No. Falcon Refinery Superfund Site/Ingleside, Texas													
Project Contact Stephen Halasz		E-Mail j.halasz@kleinfelder.com	Bill to		Invoice Attn.											
Address 3601 Manor Road		Address														
City Austin, TX	State 78723	Zip	City	State	ZIP											
Phone No. 512-926-6650	Fax No.	Fax No.	Fax No.													
Samplers Name <u>PAUL SUJAK, DENNIS ALANIZ, CHRIS MUNGERSON</u>			Client Purchase Order #													
Accutest Sample #	Field ID / Point of Collection		Collection		# of bottles	Number of preserved bottles			VOA (8290TCL)	SVOA (8270TCL)	TAL METALS (80/07/471)	PCB (8082)	Herbicides (8151)	Pesticides (8081)	Hex Cr	LAB USE ONLY
			Date 12/4/07	Time 4:00		Matrix W	HCl	NaOH								
10	FR - 108		7	3	1				3	X	X	X		X		
11	TRIP BLANK		12/4/07	W	2	2					X					
12	TRIP BLANK		12/4/07	W	2	2				X						
Turnaround Time (CAL days)			Data Deliverable Information									Comments / Remarks				
<input checked="" type="checkbox"/> 12 Day STANDARD	Approved By / Date:		<input type="checkbox"/> Commercial "A" <input type="checkbox"/> State Forms <input type="checkbox"/> Commercial "B" <input type="checkbox"/> EDD Format <input type="checkbox"/> Reduced Tier 1 <input checked="" type="checkbox"/> TRRP <input type="checkbox"/> Full Data Package									TRRP REPORTING				
<input type="checkbox"/> 5 Day RUSH																
<input type="checkbox"/> 4 Day RUSH																
<input type="checkbox"/> 3 Day EMERGENCY																
<input type="checkbox"/> 2 Day EMERGENCY																
<input type="checkbox"/> 1 Day EMERGENCY																
Other																
Real time analytical data available via Lablink																
SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY																
Relinquished By Sampler: <u>Paul Sujak</u>	Date Time: 12/04/07	Received By: <u>D. B.</u>	Relinquished By: 1	Date Time:	Received By:											
Relinquished by:	Date Time:	Received by:	Relinquished By:	Date Time:	Received By:											
3		3	2		2											
Relinquished by:	Date Time: 12/04/07	Received by: <u>R. B.</u>	Relinquished By: 4	Date Time:	Received By: 4											
5	09:00	5	Custody Seal #	Preserved where applicable	On Ice	Cooler Temp.										

4
1

4

T19964: Chain of Custody
Page 2 of 3



SAMPLE RECEIPT LOG

JOB #: 74904

DATE/TIME RECEIVED: 12/5/07 8:30

CLIENT: Kleintelder

INITIALS: RE

Condition/Variance (Circle "Y" for yes and "N" for no or NA. If "N" is circled, see variance for explanation):
1. Y N Sample received in undamaged condition. N Samples received within temp. range
2. Y N Sample received with proper pH. N Sample received in proper containers.
3. Y N Sample volume sufficient for analysis. N Sample received with chain of custody
4. Y N Chain of Custody matches sample IDs and analysis on containers.
5. Y N Samples Headspace acceptable
6. Y N Custody seal received intact and tamper not evident on cooler.
7. Y N Custody seal received intact and tamper not evident on bottles.
8. Y N Custody seal received intact and tamper not evident on bottles.

LOCATION: WI: Walk-In VR: Volatile Refrig. **SUB:** Subcontract **EE:** Encore Freeze

PRESERVATIVES: 1: None 2: HCl 3: HNO₃ 4: H₂SO₄ 5: NaOH 6: Other:

Comments:

pH of waters checked excluding volatiles
pH of soils N/A

Delivery method: Courier: dhiver

COOLER TEMP: 2.1 COOLER TEMP: 3.0
COOLER TEMP: COOLER TEMP:

Form: SM012, Rev.07/28/06, QAO

Appendix A Laboratory Data Package Cover Page

4.2
4

This data package consists of:

- This signature page, the laboratory review checklist, and the following reportable data:
 - R1 Field chain-of-custody documentation;
 - R2 Sample identification cross-reference;
 - R3 Test reports (analytical data sheets) for each environmental sample that includes:
 - a) Items consistent with NELAC 5.13 or ISO/IEC 17025 Section 5.10
 - b) dilution factors,
 - c) preparation methods,
 - d) cleanup methods, and
 - e) if required for the project, tentatively identified compounds (TICs).
- R4 Surrogate recovery data including:
 - a) Calculated recovery (%R), and
 - b) The laboratory's surrogate QC limits.
- R5 Test reports/summary forms for blank samples;
- R6 Test reports/summary forms for laboratory control samples (LCSs) including:
 - a) LCS spiking amounts,
 - b) Calculated %R for each analyte, and
 - c) The laboratory's LCS QC limits.
- R7 Test reports for project matrix spike/matrix spike duplicates (MS/MSDs) including:
 - a) Samples associated with the MS/MSD clearly identified,
 - b) MS/MSD spiking amounts,
 - c) Concentration of each MS/MSD analyte measured in the parent and spiked samples,
 - d) Calculated %Rs and relative percent differences (RPDs), and
 - e) The laboratory's MS/MSD QC limits
- R8 Laboratory analytical duplicate (if applicable) recovery and precision:
 - a) the amount of analyte measured in the duplicate,
 - b) the calculated RPD, and
 - c) the laboratory's QC limits for analytical duplicates.
- R9 List of method quantitation limits (MQLs) for each analyte for each method and matrix;
- R10 Other problems or anomalies.
- The Exception Report for every "No" or "Not Reviewed (NR)" item in laboratory review checklist.

Release Statement: I am responsible for the release of this laboratory data package. This data package has been reviewed by the laboratory and is complete and technically compliant with the requirements of the methods used, except where noted by the laboratory in the attached exception reports. By my signature below, I affirm to the best of my knowledge, all problems/anomalies, observed by the laboratory as having the potential to affect the quality of the data, have been identified by the laboratory in the Laboratory Review Checklist, and no information or data have been knowingly withheld that would affect the quality of the data.

Check, if applicable: [] This laboratory is an in-house laboratory controlled by the person responding to rule. The official signing the cover page of the rule-required report (for example, the APAR) in which these data are used is responsible for releasing this data package and is by signature affirming the above release statement is true.

Ron Martino



Lab Director

12/28/2007

Name (Printed)

Signature

Official Title (printed)

Date

1. Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.

Appendix A (cont'd): Laboratory Review Checklist: Reportable Data

Laboratory Name: Accutest Laboratories Gulf Coast	LRC Date: 12/28/2007							
Project Name: Falcon Refinery Superfund Site	Laboratory Job Number: T19964							
Reviewer Name: Ron Martino	Prep Batch Number(s):							
# ¹	A ²	Description	Yes	No	NA ³	NR ⁴	ER# ⁵	
R1	OI	Chain-of-custody (C-O-C)						
		Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	X					
R2	OI	Sample and quality control (QC) identification						
		Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	X					
R3	OI	Are all laboratory ID numbers cross-referenced to the corresponding QC data?	X					
		Test reports						
R4	O	Were all samples prepared and analyzed within holding times?	X					
		Other than those results < MQL, were all other raw values bracketed by calibration standards?	X					
		Were calculations checked by a peer or supervisor?	X					
		Were all analyte identifications checked by a peer or supervisor?	X					
		Were sample quantitation limits reported for all analytes not detected?	X					
		Were all results for soil and sediment samples reported on a dry weight basis?	X					
		Were % moisture (or solids) reported for all soil and sediment samples?	X					
If required for the project, TICs reported?					X			
R5	OI	Surrogate recovery data						
		Were surrogates added prior to extraction?	X					
R6	OI	Were surrogate percent recoveries in all samples within the laboratory QC limits?	X					
		Test reports/summary forms for blank samples						
R7	OI	Were appropriate type(s) of blanks analyzed?	X					
		Were blanks analyzed at the appropriate frequency?	X					
		Were method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	X					
		Were blank concentrations < MQL?	X					
R8	OI	Laboratory control samples (LCS):						
		Were all COCs included in the LCS?	X					
		Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	X					
		Were LCSs analyzed at the required frequency?	X					
		Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?		X			1	
		Does the detectability data document the laboratory's capability to detect the COCs at the MDL used to calculate the SQLs?	X					
Was the LCSD RPD within QC limits?				X				
R9	OI	Matrix spike (MS) and matrix spike duplicate (MSD) data						
		Were the project/method specified analytes included in the MS and MSD?	X					
		Were MS/MSD analyzed at the appropriate frequency?	X					
		Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?		X			1	
Were MS/MSD RPDs within laboratory QC limits?	X				1			
R10	OI	Analytical duplicate data						
		Were appropriate analytical duplicates analyzed for each matrix?	X					
		Were analytical duplicates analyzed at the appropriate frequency?	X					
Were RPDs or relative standard deviations within the laboratory QC limits?		X			1			
R11	OI	Method quantitation limits (MQLs):						
		Are the MQLs for each method analyte included in the laboratory data package?	X					
		Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	X					
R12	OI	Are unadjusted MQLs included in the laboratory data package?	X					
		Other problems/anomalies						
		Are all known problems/anomalies/special conditions noted in this LRC and ER?	X					
Were all necessary corrective actions performed for the reported data?	X							
Was applicable and available technology used to lower the SQL minimize the matrix interference affects on the sample results?	X							

2. = organic analyses; I = inorganic analyses (and general chemistry, when applicable);

3. NA = Not applicable;

4. NR = Not reviewed;

5. ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Appendix A (cont'd): Laboratory Review Checklist: Reportable Data

Laboratory Name: Accutest Laboratories Gulf Coast	LRC Date: 12/28/2007						
Project Name: Falcon Refinery Superfund Site	Laboratory Job Number: T19964						
Reviewer Name: Ron Martino	Prep Batch Number(s):						
# ¹	A ²	Description	Yes	No	NA ³	NR ⁴	ER# ⁵
S1	OI	Initial calibration (ICAL)					
		Were response factors and/or relative response factors for each analyte within QC limits?	X				
		Were percent RSDs or correlation coefficient criteria met?	X				
		Was the number of standards recommended in the method used for all analytes?	X				
		Were all points generated between the lowest and highest standard used to calculate the curve?	X				
		Are ICAL data available for all instruments used?	X				
		Has the initial calibration curve been verified using an appropriate second source standard?	X				
S2	OI	Initial and continuing calibration verification (CCV and CCV) and continuing calibration					
		Was the CCV analyzed at the method-required frequency?	X				
		Were percent differences for each analyte within the method-required QC limits?	X				
		Was the ICAL curve verified for each analyte?	X				
		Was the absolute value of the analyte concentration in the inorganic CCB < MDL?	X				
S3	O	Mass spectral tuning:					
		Was the appropriate compound for the method used for tuning?	X				
		Were ion abundance data within the method-required QC limits?	X				
S4	O	Internal standards (IS):					
		Were IS area counts and retention times within the method-required QC limits?	X				
S5	OI	Raw data (NELAC section 1 appendix A glossary, and section 5.12 or ISO/IEC 17025 section					
		Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?	X				
		Were data associated with manual integrations flagged on the raw data?	X				
S6	O	Dual column confirmation					
		Did dual column confirmation results meet the method-required QC?				X	
S7	O	Tentatively identified compounds (TICs):					
		If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?				X	
S8	I	Interference Check Sample (ICS) results:					
		Were percent recoveries within method QC limits?				X	
S9	I	Serial dilutions, post digestion spikes, and method of standard additions					
		Were percent differences, recoveries, and the linearity within the QC limits specified in the method?				X	1
S10	OI	Method detection limit (MDL) studies					
		Was a MDL study performed for each reported analyte?				X	
		Is the MDL either adjusted or supported by the analysis of DCSs?				X	
S11	OI	Proficiency test reports:					
		Was the laboratory's performance acceptable on the applicable proficiency tests or evaluation studies?				X	
S12	OI	Standards documentation					
		Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?				X	
S13	OI	Compound/analyte identification procedures					
		Are the procedures for compound/analyte identification documented?				X	
S16	OI	Demonstration of analyst competency (DOC)					
		Was DOC conducted consistent with NELAC Chapter 5C or ISO/IEC 4?				X	
		Is documentation of the analyst's competency up-to-date and on file?				X	
S15	OI	Verification/validation documentation for methods (NELAC Chap 5 or ISO/IEC 17025 Section 5)					
		Are all the methods used to generate the data documented, verified, and validated, where applicable?				X	
S16	OI	Laboratory standard operating procedures (SOPs):					
		Are laboratory SOPs current and on file for each method performed?				X	

- 1 Items identified by the letter "R" should be included in the laboratory data package submitted to the TCEQ in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
 2 O = organic analyses; I = inorganic analyses (and general chemistry, when applicable).
 3 NA = Not applicable.
 4 NR = Not Reviewed.
 5 ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Appendix A (cont'd): Laboratory Review Checklist: Exception Reports

Laboratory Name: Accutest Laboratories Gulf Coast	LRC Date: 12/28/2007
Project Name: Falcon Refinery Superfund Site	Laboratory Job Number: T19964
Reviewer Name: Ron Martino	Prep Batch Number(s):
ER # ⁴	DESCRIPTION
1	All anomalies are discussed in the case narrative.

ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked on the LRC)



IT'S ALL IN THE CHEMISTRY

GC/MS Volatiles

5

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Page 1 of 3

Job Number: T19964

Account: KLETXAU KLEINFELDER

Project: Falcon Refinery Superfund Site/Ingleside, TX

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VF2797-MB	F0088659.D	1	12/09/07	ZLH	n/a	n/a	VF2797

The QC reported here applies to the following samples:

Method: SW846 8260B

T19964-6, T19964-9, T19964-10, T19964-11, T19964-12

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	50	2.6	ug/l	
71-43-2	Benzene	ND	2.0	0.46	ug/l	
108-86-1	Bromobenzene	ND	2.0	0.42	ug/l	
74-97-5	Bromochloromethane	ND	2.0	0.49	ug/l	
75-27-4	Bromodichloromethane	ND	2.0	0.42	ug/l	
75-25-2	Bromoform	ND	2.0	1.4	ug/l	
71-36-3	n-Butyl Alcohol	ND	20	20	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	0.55	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	0.83	ug/l	
108-90-7	Chlorobenzene	ND	2.0	0.42	ug/l	
75-00-3	Chloroethane	ND	2.0	0.39	ug/l	
67-66-3	Chloroform	ND	2.0	0.54	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	0.38	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	0.50	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.51	ug/l	
56-23-5	Carbon tetrachloride	ND	2.0	0.45	ug/l	
110-82-7	Cyclohexane	ND	2.0	0.53	ug/l	
75-34-3	1,1-Dichloroethane	ND	2.0	0.41	ug/l	
75-35-4	1,1-Dichloroethylene	ND	2.0	0.48	ug/l	
563-58-6	1,1-Dichloropropene	ND	2.0	0.35	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	1.1	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.47	ug/l	
107-06-2	1,2-Dichloroethane	ND	2.0	0.50	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.53	ug/l	
142-28-9	1,3-Dichloropropane	ND	2.0	0.41	ug/l	
123-91-1	1,4-Dioxane	ND	50	130	ug/l	
594-20-7	2,2-Dichloropropane	ND	2.0	0.58	ug/l	
124-48-1	Dibromochloromethane	ND	2.0	0.46	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.53	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	2.0	0.43	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	2.0	0.53	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	2.0	0.46	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	2.0	0.36	ug/l	
100-41-4	Ethylbenzene	ND	2.0	0.45	ug/l	
60-29-7	Ethyl Ether	ND	2.0	2.0	ug/l	
110-54-3	hexane	ND	2.0	0.61	ug/l	

5
1
5

Method Blank Summary

Page 2 of 3

Job Number: T19964

Account: KLETXAU KLEINFELDER

Project: Falcon Refinery Superfund Site/Ingleside, TX

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VF2797-MB	F0088659.D	1	12/09/07	ZLH	n/a	n/a	VF2797

The QC reported here applies to the following samples:

Method: SW846 8260B

T19964-6, T19964-9, T19964-10, T19964-11, T19964-12

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	10	2.4	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	1.2	ug/l	
98-82-8	Isopropylbenzene	ND	2.0	0.41	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	0.40	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	2.5	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.54	ug/l	
74-87-3	Methyl chloride	ND	2.0	0.42	ug/l	
74-95-3	Methylene bromide	ND	2.0	0.41	ug/l	
75-09-2	Methylene chloride ^a	0.85	5.0	0.41	ug/l	J
78-93-3	Methyl ethyl ketone	ND	10	2.5	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	0.51	ug/l	
100-42-5	Styrene	ND	2.0	0.35	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	2.0	0.37	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	2.0	0.47	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	0.42	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	2.0	0.44	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	2.0	0.43	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.69	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	0.53	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.46	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.44	ug/l	
127-18-4	Tetrachloroethylene	ND	2.0	0.50	ug/l	
108-88-3	Toluene	ND	2.0	0.48	ug/l	
79-01-6	Trichloroethylene	ND	2.0	0.47	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.47	ug/l	
75-01-4	Vinyl chloride	ND	2.0	0.42	ug/l	
108-05-4	Vinyl Acetate	ND	10	2.3	ug/l	
1330-20-7	Xylene (total)	ND	6.0		ug/l	

CAS No.	Surrogate Recoveries	Limits
1868-53-7	Dibromofluoromethane	98% 76-125%
17060-07-0	1,2-Dichloroethane-D4	102% 69-128%
2037-26-5	Toluene-D8	102% 80-121%
460-00-4	4-Bromofluorobenzene	114% 69-142%

Method Blank Summary

Page 3 of 3

Job Number: T19964
Account: KLETXAU KLEINFELDER
Project: Falcon Refinery Superfund Site/Ingleside, TX

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VF2797-MB	F0088659.D	1	12/09/07	ZLH	n/a	n/a	VF2797

The QC reported here applies to the following samples:

Method:

T19964-6, T19964-9, T19964-10, T19964-11, T19964-12

(a) Suspected laboratory contaminant.

5.1

5

Method Blank Summary

Page 1 of 2

Job Number: T19964

Account: KLETXAU KLEINFELDER

Project: Falcon Refinery Superfund Site/Ingleside, TX

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VM47-MB	M0001118.D 1		12/10/07	LJ	n/a	n/a	VM47

The QC reported here applies to the following samples:

Method: SW846 8260B

T19964-1, T19964-2, T19964-3, T19964-4, T19964-5, T19964-7, T19964-8

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	50	7.2	ug/kg	
71-43-2	Benzene	ND	5.0	1.4	ug/kg	
108-86-1	Bromobenzene	ND	5.0	1.3	ug/kg	
74-97-5	Bromochloromethane	ND	5.0	1.4	ug/kg	
75-27-4	Bromodichloromethane	ND	5.0	1.4	ug/kg	
75-25-2	Bromoform	ND	5.0	1.2	ug/kg	
71-36-3	n-Butyl Alcohol	ND	50	50	ug/kg	
104-51-8	n-Butylbenzene	ND	5.0	0.97	ug/kg	
98-06-6	tert-Butylbenzene	ND	5.0	1.0	ug/kg	
108-90-7	Chlorobenzene	ND	5.0	1.4	ug/kg	
75-00-3	Chloroethane	ND	5.0	1.4	ug/kg	
67-66-3	Chloroform	ND	5.0	1.3	ug/kg	
95-49-8	o-Chlorotoluene	ND	5.0	1.2	ug/kg	
106-43-4	p-Chlorotoluene	ND	5.0	1.1	ug/kg	
75-15-0	Carbon disulfide	ND	10	1.3	ug/kg	
56-23-5	Carbon tetrachloride	ND	5.0	1.1	ug/kg	
110-82-7	Cyclohexane	ND	5.0	1.2	ug/kg	
75-34-3	1,1-Dichloroethane	ND	5.0	1.3	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	5.0	1.3	ug/kg	
563-58-6	1,1-Dichloropropene	ND	5.0	1.2	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	1.4	ug/kg	
106-93-4	1,2-Dibromoethane	ND	5.0	1.4	ug/kg	
107-06-2	1,2-Dichloroethane	ND	5.0	1.4	ug/kg	
78-87-5	1,2-Dichloropropane	ND	5.0	1.5	ug/kg	
142-28-9	1,3-Dichloropropane	ND	5.0	1.4	ug/kg	
123-91-1	1,4-Dioxane	ND	250	24	ug/kg	
594-20-7	2,2-Dichloropropane	ND	5.0	1.1	ug/kg	
124-48-1	Dibromochloromethane	ND	5.0	1.4	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	5.0	1.1	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	5.0	1.4	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	5.0	1.3	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	5.0	1.3	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	5.0	1.4	ug/kg	
100-41-4	Ethylbenzene	ND	5.0	1.3	ug/kg	
60-29-7	Ethyl Ether	ND	5.0	5.0	ug/kg	
110-54-3	Hexane	ND	5.0	1.1	ug/kg	

5
1

Method Blank Summary

Page 2 of 2

Job Number: T19964

Account: KLETXAU KLEINFELDER

Project: Falcon Refinery Superfund Site/Ingleside, TX

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VM47-MB	M0001118.D 1		12/10/07	LJ	n/a	n/a	VM47

The QC reported here applies to the following samples:

Method: SW846 8260B

T19964-1, T19964-2, T19964-3, T19964-4, T19964-5, T19964-7, T19964-8

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	50	6.8	ug/kg	
87-68-3	Hexachlorobutadiene	ND	5.0	1.2	ug/kg	
98-82-8	Isopropylbenzene	ND	5.0	1.2	ug/kg	
99-87-6	p-Isopropyltoluene	ND	5.0	1.2	ug/kg	
108-10-1	4-Methyl-2-pentanone	ND	50	7.0	ug/kg	
74-83-9	Methyl bromide	ND	5.0	1.5	ug/kg	
74-87-3	Methyl chloride	ND	5.0	1.5	ug/kg	
74-95-3	Methylene bromide	ND	5.0	2.0	ug/kg	
75-09-2	Methylene chloride	ND	10	2.5	ug/kg	
78-93-3	Methyl ethyl ketone	ND	50	6.7	ug/kg	
103-65-1	n-Propylbenzene	ND	5.0	1.1	ug/kg	
100-42-5	Styrene	ND	5.0	1.3	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	1.4	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	5.0	1.2	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.0	1.4	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	5.0	1.4	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	1.2	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	5.0	1.4	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	1.0	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	1.1	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	1.1	ug/kg	
127-18-4	Tetrachloroethylene	ND	5.0	1.3	ug/kg	
108-88-3	Toluene	ND	5.0	1.3	ug/kg	
79-01-6	Trichloroethylene	ND	5.0	1.3	ug/kg	
75-69-4	Trichlorofluoromethane	ND	5.0	1.0	ug/kg	
75-01-4	Vinyl chloride	ND	5.0	1.4	ug/kg	
108-05-4	Vinyl Acetate	ND	25	7.6	ug/kg	
1330-20-7	Xylene (total)	ND	15	3.8	ug/kg	

CAS No.	Surrogate Recoveries	Limits	
1868-53-7	Dibromofluoromethane	109%	68-127%
2037-26-5	Toluene-D8	120%	76-139%
460-00-4	4-Bromofluorobenzene	119%	68-167%
17060-07-0	1,2-Dichloroethane-D4	101%	56-121%

Blank Spike Summary

Page 1 of 3

Job Number: T19964

Account: KLETXAU KLEINFELDER

Project: Falcon Refinery Superfund Site/Ingleside, TX

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VF2797-BS	F0088656.D	1	12/09/07	ZLH	n/a	n/a	VF2797

The QC reported here applies to the following samples:

Method: SW846 8260B

T19964-6, T19964-9, T19964-10, T19964-11, T19964-12

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	125	124	99	46-148
71-43-2	Benzene	25	27.2	109	73-121
108-86-1	Bromobenzene	25	24.5	98	72-116
74-97-5	Bromochloromethane	25	23.1	92	67-118
75-27-4	Bromodichloromethane	25	23.5	94	69-119
75-25-2	Bromoform	25	23.8	95	58-117
71-36-3	n-Butyl Alcohol	250	262	105	50-150 ^a
104-51-8	n-Butylbenzene	25	27.5	110	67-126
98-06-6	tert-Butylbenzene	25	27.9	112	70-124
108-90-7	Chlorobenzene	25	25.4	102	76-113
75-00-3	Chloroethane	25	31.7	127	68-138
67-66-3	Chloroform	25	26.6	106	71-118
95-49-8	o-Chlorotoluene	25	26.5	106	72-120
106-43-4	p-Chlorotoluene	25	26.1	104	72-120
75-15-0	Carbon disulfide	25	28.1	112	52-132
56-23-5	Carbon tetrachloride	25	26.8	107	71-132
110-82-7	Cyclohexane	25	29.7	119	71-134
75-34-3	1,1-Dichloroethane	25	28.5	114	71-123
75-35-4	1,1-Dichloroethylene	25	28.1	112	65-132
563-58-6	1,1-Dichloropropene	25	27.7	111	75-131
96-12-8	1,2-Dibromo-3-chloropropane	25	25.0	100	40-137
106-93-4	1,2-Dibromoethane	25	24.0	96	68-117
107-06-2	1,2-Dichloroethane	25	24.4	98	66-122
78-87-5	1,2-Dichloropropane	25	25.7	103	71-119
142-28-9	1,3-Dichloropropane	25	25.4	102	69-117
123-91-1	1,4-Dioxane	500	365	73	35-154
594-20-7	2,2-Dichloropropane	25	26.6	106	61-137
124-48-1	Dibromochloromethane	25	23.7	95	68-116
75-71-8	Dichlorodifluoromethane	25	40.6	162	34-165
156-59-2	cis-1,2-Dichloroethylene	25	22.6	90	70-117
10061-01-5	cis-1,3-Dichloropropene	25	25.0	100	69-122
156-60-5	trans-1,2-Dichloroethylene	25	27.8	111	71-127
10061-02-6	trans-1,3-Dichloropropene	25	27.2	109	70-127
100-41-4	Ethylbenzene	25	26.4	106	75-117
60-29-7	Ethyl Ether	25	19.1	76	50-150 ^a
110-54-3	hexane	25	31.7	127	56-139

5.2
5

Blank Spike Summary

Page 2 of 3

Job Number: T19964
Account: KLETXAU KLEINFELDER
Project: Falcon Refinery Superfund Site/Ingleside, TX

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VF2797-BS	F0088656.D	1	12/09/07	ZLH	n/a	n/a	VF2797

The QC reported here applies to the following samples:

Method: SW846 8260B

T19964-6, T19964-9, T19964-10, T19964-11, T19964-12

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
591-78-6	2-Hexanone	125	134	107	42-137
87-68-3	Hexachlorobutadiene	25	26.7	107	60-135
98-82-8	Isopropylbenzene	25	28.1	112	72-129
99-87-6	p-Isopropyltoluene	25	27.4	110	73-123
108-10-1	4-Methyl-2-pentanone	125	134	107	53-134
74-83-9	Methyl bromide	25	28.4	114	58-133
74-87-3	Methyl chloride	25	31.7	127	55-143
74-95-3	Methylene bromide	25	24.7	99	66-121
75-09-2	Methylene chloride	25	26.4	106	60-124
78-93-3	Methyl ethyl ketone	125	133	106	49-135
103-65-1	n-Propylbenzene	25	27.1	108	72-124
100-42-5	Styrene	25	23.1	92	67-114
630-20-6	1,1,1,2-Tetrachloroethane	25	24.7	99	73-113
71-55-6	1,1,1-Trichloroethane	25	26.3	105	71-128
79-34-5	1,1,2,2-Tetrachloroethane	25	27.0	108	62-124
79-00-5	1,1,2-Trichloroethane	25	25.0	100	68-117
87-61-6	1,2,3-Trichlorobenzene	25	22.5	90	39-144
96-18-4	1,2,3-Trichloropropane	25	24.0	96	59-121
120-82-1	1,2,4-Trichlorobenzene	25	22.7	91	49-129
95-63-6	1,2,4-Trimethylbenzene	25	26.5	106	73-119
108-67-8	1,3,5-Trimethylbenzene	25	27.1	108	72-122
127-18-4	Tetrachloroethylene	25	25.1	100	74-123
108-88-3	Toluene	25	26.6	106	75-119
79-01-6	Trichloroethylene	25	25.4	102	72-123
75-69-4	Trichlorofluoromethane	25	27.1	108	53-161
75-01-4	Vinyl chloride	25	28.9	116	62-150
108-05-4	Vinyl Acetate	125	168	134	21-150
1330-20-7	Xylene (total)	75	79.1	105	75-118

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	100%	76-125%
17060-07-0	1,2-Dichloroethane-D4	108%	69-128%
2037-26-5	Toluene-D8	101%	80-121%
460-00-4	4-Bromofluorobenzene	105%	69-142%

5.2
5

Blank Spike Summary

Page 3 of 3

Job Number: T19964
Account: KLETXAU KLEINFELDER
Project: Falcon Refinery Superfund Site/Ingleside, TX

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VF2797-BS	F0088656.D	1	12/09/07	ZLH	n/a	n/a	VF2797

The QC reported here applies to the following samples:

Method: SW846 8260B

T19964-6, T19964-9, T19964-10, T19964-11, T19964-12

5.2

5

(a) Advisory control limits.

Blank Spike Summary

Page 1 of 3

Job Number: T19964

Account: KLETXAU KLEINFELDER

Project: Falcon Refinery Superfund Site/Ingleside, TX

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VM47-BS	M0001116.D 1		12/10/07	LJ	n/a	n/a	VM47

The QC reported here applies to the following samples:

Method: SW846 8260B

T19964-1, T19964-2, T19964-3, T19964-4, T19964-5, T19964-7, T19964-8

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
67-64-1	Acetone	250	246	98	58-157
71-43-2	Benzene	50	49.0	98	74-121
108-86-1	Bromobenzene	50	50.5	101	74-123
74-97-5	Bromochloromethane	50	48.5	97	76-120
75-27-4	Bromodichloromethane	50	47.7	95	77-120
75-25-2	Bromoform	50	50.5	101	76-124
71-36-3	n-Butyl Alcohol	500	536	107	50-150 ^a
104-51-8	n-Butylbenzene	50	50.3	101	70-137
98-06-6	tert-Butylbenzene	50	53.4	107	71-127
108-90-7	Chlorobenzene	50	48.8	98	79-119
75-00-3	Chloroethane	50	48.0	96	56-139
67-66-3	Chloroform	50	49.7	99	74-119
95-49-8	o-Chlorotoluene	50	50.9	102	70-126
106-43-4	p-Chlorotoluene	50	51.0	102	73-126
75-15-0	Carbon disulfide	50	47.5	95	42-137
56-23-5	Carbon tetrachloride	50	48.5	97	63-129
110-82-7	Cyclohexane	50	48.7	97	56-137
75-34-3	1,1-Dichloroethane	50	49.5	99	71-123
75-35-4	1,1-Dichloroethylene	50	46.9	94	57-132
563-58-6	1,1-Dichloropropene	50	47.4	95	69-131
96-12-8	1,2-Dibromo-3-chloropropane	50	49.2	98	56-148
106-93-4	1,2-Dibromoethane	50	51.2	102	81-119
107-06-2	1,2-Dichloroethane	50	47.6	95	75-122
78-87-5	1,2-Dichloropropane	50	49.4	99	75-121
142-28-9	1,3-Dichloropropane	50	49.7	99	76-121
123-91-1	1,4-Dioxane	1000	1030	103	59-155
594-20-7	2,2-Dichloropropane	50	49.5	99	64-134
124-48-1	Dibromochloromethane	50	50.1	100	81-119
75-71-8	Dichlorodifluoromethane	50	36.7	73	20-170
156-59-2	cis-1,2-Dichloroethylene	50	48.0	96	74-119
10061-01-5	cis-1,3-Dichloropropene	50	53.6	107	80-126
156-60-5	trans-1,2-Dichloroethylene	50	46.9	94	69-129
10061-02-6	trans-1,3-Dichloropropene	50	53.2	106	82-136
100-41-4	Ethylbenzene	50	48.0	96	75-122
60-29-7	Ethyl Ether	50	66.4	133	50-150 ^a
110-54-3	Hexane	50	49.5	99	50-142

5.2
5

Blank Spike Summary

Page 2 of 3

Job Number: T19964
Account: KLETXAU KLEINFELDER
Project: Falcon Refinery Superfund Site/Ingleside, TX

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VM47-BS	M0001116.D 1		12/10/07	LJ	n/a	n/a	VM47

The QC reported here applies to the following samples:

Method: SW846 8260B

T19964-1, T19964-2, T19964-3, T19964-4, T19964-5, T19964-7, T19964-8

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
591-78-6	2-Hexanone	250	254	102	49-155
87-68-3	Hexachlorobutadiene	50	49.4	99	61-139
98-82-8	Isopropylbenzene	50	52.4	105	71-134
99-87-6	p-Isopropyltoluene	50	50.4	101	73-130
108-10-1	4-Methyl-2-pentanone	250	259	104	65-145
74-83-9	Methyl bromide	50	46.9	94	45-137
74-87-3	Methyl chloride	50	45.3	91	43-144
74-95-3	Methylene bromide	50	51.8	104	79-121
75-09-2	Methylene chloride	50	46.1	92	66-130
78-93-3	Methyl ethyl ketone	250	253	101	69-137
103-65-1	n-Propylbenzene	50	50.9	102	69-129
100-42-5	Styrene	50	45.5	91	72-122
630-20-6	1,1,1,2-Tetrachloroethane	50	48.2	96	79-117
71-55-6	1,1,1-Trichloroethane	50	48.7	97	63-131
79-34-5	1,1,2,2-Tetrachloroethane	50	53.9	108	67-135
79-00-5	1,1,2-Trichloroethane	50	50.5	101	76-120
87-61-6	1,2,3-Trichlorobenzene	50	50.7	101	58-149
96-18-4	1,2,3-Trichloropropane	50	47.5	95	72-125
120-82-1	1,2,4-Trichlorobenzene	50	51.8	104	60-147
95-63-6	1,2,4-Trimethylbenzene	50	49.8	100	74-126
108-67-8	1,3,5-Trimethylbenzene	50	51.0	102	72-126
127-18-4	Tetrachloroethylene	50	49.2	98	68-127
108-88-3	Toluene	50	47.6	95	74-122
79-01-6	Trichloroethylene	50	48.1	96	72-122
75-69-4	Trichlorofluoromethane	50	45.0	90	51-145
75-01-4	Vinyl chloride	50	43.6	87	40-149
108-05-4	Vinyl Acetate	250	309	124	52-181
1330-20-7	Xylene (total)	150	146	97	76-123

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	116%	68-127%
2037-26-5	Toluene-D8	120%	76-139%
460-00-4	4-Bromofluorobenzene	119%	68-167%
17060-07-0	1,2-Dichloroethane-D4	104%	56-121%

5.2
5

Blank Spike Summary

Page 3 of 3

Job Number: T19964

Account: KLETXAU KLEINFELDER

Project: Falcon Refinery Superfund Site/Ingleside, TX

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VM47-BS	M0001116.D 1		12/10/07	LJ	n/a	n/a	VM47

The QC reported here applies to the following samples:

Method: SW846 8260B

T19964-1, T19964-2, T19964-3, T19964-4, T19964-5, T19964-7, T19964-8

(a) Advisory control limits.

5.2

5

Matrix Spike/Matrix Spike Duplicate Summary

Page 1 of 3

Job Number: T19964

Account: KLETXAU KLEINFELDER

Project: Falcon Refinery Superfund Site/Ingleside, TX

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
T19944-14MS	F0088675.D	1	12/09/07	ZLH	n/a	n/a	VF2797
T19944-14MSD	F0088676.D	1	12/09/07	ZLH	n/a	n/a	VF2797
T19944-14	F0088669.D	1	12/09/07	ZLH	n/a	n/a	VF2797

The QC reported here applies to the following samples:

Method: SW846 8260B

T19964-6, T19964-9, T19964-10, T19964-11, T19964-12

CAS No.	Compound	T19944-14 ug/l	Spike Q	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	6.5	J	125	122	92	108	81	12 31-152/36
71-43-2	Benzene	2.0 U	25	26.5	106	25.6	102	3	74-125/18
108-86-1	Bromobenzene	2.0 U	25	23.8	95	23.1	92	3	74-115/22
74-97-5	Bromochloromethane	2.0 U	25	22.2	89	21.6	86	3	67-120/25
75-27-4	Bromodichloromethane	2.0 U	25	23.0	92	21.7	87	6	67-124/22
75-25-2	Bromoform	2.0 U	25	21.6	86	20.3	81	6	55-119/28
71-36-3	n-Butyl Alcohol	20 U	250	250	100	240	96	4	50-150/30 ^a
104-51-8	n-Butylbenzene	2.0 U	25	24.9	100	25.0	100	0	61-132/21
98-06-6	tert-Butylbenzene	2.0 U	25	26.8	107	26.4	106	2	70-124/27
108-90-7	Chlorobenzene	2.0 U	25	24.8	99	23.8	95	4	82-112/20
75-00-3	Chloroethane	2.0 U	25	32.9	132	30.2	121	9	67-144/27
67-66-3	Chloroform	2.0 U	25	25.6	102	24.4	98	5	72-123/20
95-49-8	o-Chlorotoluene	2.0 U	25	26.0	104	25.6	102	2	74-121/20
106-43-4	p-Chlorotoluene	2.0 U	25	25.7	103	24.9	100	3	74-119/22
75-15-0	Carbon disulfide	2.0 U	25	27.1	108	26.0	104	4	48-138/23
56-23-5	Carbon tetrachloride	2.0 U	25	25.6	102	24.7	99	4	70-136/23
110-82-7	Cyclohexane	2.0 U	25	28.3	113	27.3	109	4	68-139/22
75-34-3	1,1-Dichloroethane	2.0 U	25	27.7	111	26.5	106	4	73-128/21
75-35-4	1,1-Dichloroethylene	2.0 U	25	26.7	107	25.9	104	3	60-138/24
563-58-6	1,1-Dichloropropene	2.0 U	25	26.3	105	25.4	102	3	76-133/22
96-12-8	1,2-Dibromo-3-chloropropane	2.0 U	25	20.0	80	21.1	84	5	23-150/36
106-93-4	1,2-Dibromoethane	2.0 U	25	23.3	93	22.5	90	3	68-117/26
107-06-2	1,2-Dichloroethane	2.0 U	25	24.1	96	22.8	91	6	66-129/22
78-87-5	1,2-Dichloropropane	2.0 U	25	25.2	101	24.4	98	3	73-122/22
142-28-9	1,3-Dichloropropane	2.0 U	25	24.9	100	24.4	98	2	69-121/25
123-91-1	1,4-Dioxane	250 U	500	308	62	334	67	8	19-152/37
594-20-7	2,2-Dichloropropane	2.0 U	25	23.6	94	22.0	88	7	50-145/29
124-48-1	Dibromochloromethane	2.0 U	25	22.7	91	21.8	87	4	68-117/24
75-71-8	Dichlorodifluoromethane	2.0 U	25	42.2	169	41.9	168	1	14-184/30
156-59-2	cis-1,2-Dichloroethylene	2.0 U	25	22.7	91	21.8	87	4	72-120/23
10061-01-5	cis-1,3-Dichloropropene	2.0 U	25	23.5	94	22.8	91	3	62-126/23
156-60-5	trans-1,2-Dichloroethylene	2.0 U	25	26.8	107	25.7	103	4	72-130/23
10061-02-6	trans-1,3-Dichloropropene	2.0 U	25	25.4	102	24.7	99	3	62-131/24
100-41-4	Ethylbenzene	2.0 U	25	25.7	103	24.8	99	4	77-119/20
60-29-7	Ethyl Ether	2.0 U	25	28.9	116	28.8	115	0	50-150/30 ^a
110-54-3	hexane	2.0 U	25	27.4	110	26.5	106	3	53-137/23

5
51

Matrix Spike/Matrix Spike Duplicate Summary

Page 2 of 3

Job Number: T19964

Account: KLETXAU KLEINFELDER

Project: Falcon Refinery Superfund Site/Ingleside, TX

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
T19944-14MS	F0088675.D	1	12/09/07	ZLH	n/a	n/a	VF2797
T19944-14MSD	F0088676.D	1	12/09/07	ZLH	n/a	n/a	VF2797
T19944-14	F0088669.D	1	12/09/07	ZLH	n/a	n/a	VF2797

The QC reported here applies to the following samples:

Method: SW846 8260B

T19964-6, T19964-9, T19964-10, T19964-11, T19964-12

CAS No.	Compound	T19944-14 ug/l	Spike Q	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
591-78-6	2-Hexanone	10 U	125	131	105	125	100	5	23-154/40
87-68-3	Hexachlorobutadiene	2.0 U	25	21.6	86	23.0	92	6	51-130/31
98-82-8	Isopropylbenzene	2.0 U	25	27.5	110	26.6	106	3	72-130/24
99-87-6	p-Isopropyltoluene	2.0 U	25	25.6	102	25.3	101	1	73-121/22
108-10-1	4-Methyl-2-pentanone	10 U	125	131	105	123	98	6	41-147/30
74-83-9	Methyl bromide	2.0 U	25	27.9	112	25.5	102	9	58-134/25
74-87-3	Methyl chloride	2.0 U	25	32.3	129	25.9	104	22	47-151/27
74-95-3	Methylene bromide	2.0 U	25	24.0	96	24.1	96	0	68-124/25
75-09-2	Methylene chloride	5.0 U	25	25.5	102	24.1	96	6	52-125/24
78-93-3	Methyl ethyl ketone	10 U	125	122	98	115	92	6	42-142/39
103-65-1	n-Propylbenzene	2.0 U	25	26.4	106	25.8	103	2	72-124/23
100-42-5	Styrene	2.0 U	25	22.3	89	21.1	84	6	68-115/26
630-20-6	1,1,1,2-Tetrachloroethane	2.0 U	25	23.8	95	22.9	92	4	77-113/21
71-55-6	1,1,1-Trichloroethane	2.0 U	25	25.0	100	24.2	97	3	72-134/22
79-34-5	1,1,2,2-Tetrachloroethane	2.0 U	25	26.8	107	25.9	104	3	55-132/34
79-00-5	1,1,2-Trichloroethane	2.0 U	25	24.5	98	24.0	96	2	66-121/26
87-61-6	1,2,3-Trichlorobenzene	2.0 U	25	15.7	63	20.0	80	24	23-142/41
96-18-4	1,2,3-Trichloropropane	2.0 U	25	24.1	96	22.4	90	7	52-128/27
120-82-1	1,2,4-Trichlorobenzene	2.0 U	25	18.6	74	20.0	80	7	34-134/30
95-63-6	1,2,4-Trimethylbenzene	2.0 U	25	25.3	101	24.7	99	2	73-120/20
108-67-8	1,3,5-Trimethylbenzene	2.0 U	25	26.2	105	25.5	102	3	72-121/23
127-18-4	Tetrachloroethylene	2.0 U	25	23.6	94	22.8	91	3	75-122/23
108-88-3	Toluene	2.0 U	25	26.1	104	25.4	102	3	79-119/21
79-01-6	Trichloroethylene	2.0 U	25	24.4	98	23.3	93	5	75-124/21
75-69-4	Trichlorofluoromethane	2.0 U	25	29.6	118	28.5	114	4	46-162/27
75-01-4	Vinyl chloride	2.0 U	25	29.3	117	25.8	103	13	58-150/29
108-05-4	Vinyl Acetate	10 U	125	139	111	132	106	5	10-160/34
1330-20-7	Xylene (total)	6.0 U	75	76.8	102	74.7	100	3	78-119/20

CAS No.	Surrogate Recoveries	MS	MSD	T19944-14	Limits
1868-53-7	Dibromofluoromethane	98%	98%	99%	76-125%
17060-07-0	1,2-Dichloroethane-D4	104%	104%	102%	69-128%
2037-26-5	Toluene-D8	103%	104%	104%	80-121%
460-00-4	4-Bromofluorobenzene	105%	106%	114%	69-142%

Matrix Spike/Matrix Spike Duplicate Summary

Page 3 of 3

Job Number: T19964

Account: KLETXAU KLEINFELDER

Project: Falcon Refinery Superfund Site/Ingleside, TX

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
T19944-14MS	F0088675.D	1	12/09/07	ZLH	n/a	n/a	VF2797
T19944-14MSD	F0088676.D	1	12/09/07	ZLH	n/a	n/a	VF2797
T19944-14	F0088669.D	1	12/09/07	ZLH	n/a	n/a	VF2797

The QC reported here applies to the following samples:

Method: SW846 8260B

T19964-6, T19964-9, T19964-10, T19964-11, T19964-12

(a) Advisory control limits.

53

51

Matrix Spike/Matrix Spike Duplicate Summary

Page 1 of 3

Job Number: T19964

Account: KLETXAU KLEINFELDER

Project: Falcon Refinery Superfund Site/Ingleside, TX

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
T19964-4MS	M0001137.D	1	12/10/07	LJ	n/a	n/a	VM47
T19964-4MSD	M0001138.D	1	12/10/07	LJ	n/a	n/a	VM47
T19964-4	M0001122.D	1	12/10/07	LJ	n/a	n/a	VM47

The QC reported here applies to the following samples:

Method: SW846 8260B

T19964-1, T19964-2, T19964-3, T19964-4, T19964-5, T19964-7, T19964-8

CAS No.	Compound	T19964-4 ug/kg	Spike ug/kg	MS ug/kg	MS %	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	55 U	275	231	84	212	76	9	28-156/37
71-43-2	Benzene	5.5 U	55	52.4	95	51.1	92	3	52-121/25
108-86-1	Bromobenzene	5.5 U	55	53.7	98	52.3	94	3	48-127/28
74-97-5	Bromochloromethane	5.5 U	55	51.4	93	49.8	89	3	53-122/25
75-27-4	Bromodichloromethane	5.5 U	55	48.1	87	47.5	85	1	48-126/26
75-25-2	Bromoform	5.5 U	55	45.1	82	44.0	79	2	50-123/28
71-36-3	n-Butyl Alcohol	55 U	550	392	71	338	61	15	50-150/30 ^a
104-51-8	n-Butylbenzene	5.5 U	55	47.4	86	43.7	78	8	29-142/28
98-06-6	tert-Butylbenzene	5.5 U	55	51.5	94	55.9	100	8	39-132/27
108-90-7	Chlorobenzene	5.5 U	55	51.3	93	49.0	88	5	51-123/23
75-00-3	Chloroethane	5.5 U	55	53.6	97	51.8	93	3	32-137/26
67-66-3	Chloroform	5.5 U	55	52.5	95	51.0	91	3	51-122/20
95-49-8	o-Chlorotoluene	5.5 U	55	55.4	101	53.4	96	4	42-132/24
106-43-4	p-Chlorotoluene	5.5 U	55	54.2	99	51.9	93	4	41-131/24
75-15-0	Carbon disulfide	11 U	55	47.5	86	45.0	81	5	23-130/27
56-23-5	Carbon tetrachloride	5.5 U	55	52.3	95	50.2	90	4	34-129/30
110-82-7	Cyclohexane	5.5 U	55	52.0	95	48.2	86	8	29-136/25
75-34-3	1,1-Dichloroethane	5.5 U	55	53.3	97	51.2	92	4	47-125/35
75-35-4	1,1-Dichloroethylene	5.5 U	55	50.9	93	49.4	89	3	33-133/36
563-58-6	1,1-Dichloropropene	5.5 U	55	51.1	93	49.1	88	4	42-131/33
96-12-8	1,2-Dibromo-3-chloropropane	5.5 U	55	47.6	87	45.9	82	4	26-153/37
106-93-4	1,2-Dibromoethane	5.5 U	55	50.0	91	47.9	86	4	57-123/27
107-06-2	1,2-Dichloroethane	5.5 U	55	47.7	87	47.1	84	1	52-126/28
78-87-5	1,2-Dichloropropane	5.5 U	55	51.6	94	50.0	90	3	54-122/27
142-28-9	1,3-Dichloropropane	5.5 U	55	50.6	92	49.7	89	2	55-123/27
123-91-1	1,4-Dioxane	270 U	1100	1440	131	1250	112	14	28-160/37
594-20-7	2,2-Dichloropropane	5.5 U	55	52.5	95	50.2	90	4	36-132/32
124-48-1	Dibromochloromethane	5.5 U	55	50.3	91	49.4	89	2	55-122/24
75-71-8	Dichlorodifluoromethane	5.5 U	55	44.3	81	40.8	73	8	25-134/34
156-59-2	cis-1,2-Dichloroethylene	5.5 U	55	52.8	96	50.2	90	5	53-118/22
10061-01-5	cis-1,3-Dichloropropene	5.5 U	55	45.6	83	43.0	77	6	46-130/18
156-60-5	trans-1,2-Dichloroethylene	5.5 U	55	50.9	93	49.4	89	3	46-128/27
10061-02-6	trans-1,3-Dichloropropene	5.5 U	55	46.3	84	43.5	78	6	51-139/26
100-41-4	Ethylbenzene	5.5 U	55	51.6	94	49.0	88	5	44-125/25
60-29-7	Ethyl Ether	5.5 U	55	73.9	134	73.1	131	1	50-150/30 ^a
110-54-3	Hexane	5.5 U	55	53.0	96	48.3	87	9	21-137/25

5
51

Matrix Spike/Matrix Spike Duplicate Summary

Page 2 of 3

Job Number: T19964

Account: KLETXAU KLEINFELDER

Project: Falcon Refinery Superfund Site/Ingleside, TX

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
T19964-4MS	M0001137.D	1	12/10/07	LJ	n/a	n/a	VM47
T19964-4MSD	M0001138.D	1	12/10/07	LJ	n/a	n/a	VM47
T19964-4	M0001122.D	1	12/10/07	LJ	n/a	n/a	VM47

The QC reported here applies to the following samples:

Method: SW846 8260B

T19964-1, T19964-2, T19964-3, T19964-4, T19964-5, T19964-7, T19964-8

CAS No.	Compound	T19964-4 ug/kg	Spike ug/kg	MS ug/kg	MS %	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
591-78-6	2-Hexanone	55 U	275	122	44	105	38	15	31-141/33
87-68-3	Hexachlorobutadiene	5.5 U	55	34.3	62	31.7	57	8	13-143/33
98-82-8	Isopropylbenzene	5.5 U	55	58.6	107	56.3	101	4	42-139/25
99-87-6	p-Isopropyltoluene	5.5 U	55	49.0	89	45.7	82	7	38-132/25
108-10-1	4-Methyl-2-pentanone	55 U	275	193	70	174	62	10	41-141/33
74-83-9	Methyl bromide	5.5 U	55	33.3	61	30.7	55	8	20-132/30
74-87-3	Methyl chloride	5.5 U	55	48.4	88	46.5	83	4	28-139/32
74-95-3	Methylene bromide	5.5 U	55	53.9	98	52.4	94	3	54-125/22
75-09-2	Methylene chloride	11 U	55	48.4	88	47.8	86	1	39-135/28
78-93-3	Methyl ethyl ketone	55 U	275	212	77	196	70	8	41-134/30
103-65-1	n-Propylbenzene	5.5 U	55	55.1	100	52.7	94	4	37-135/27
100-42-5	Styrene	5.5 U	55	42.7	78	40.7	73	5	41-126/23
630-20-6	1,1,1,2-Tetrachloroethane	5.5 U	55	51.4	93	50.2	90	2	53-122/36
71-55-6	1,1,1-Trichloroethane	5.5 U	55	52.7	96	50.7	91	4	41-127/36
79-34-5	1,1,2,2-Tetrachloroethane	5.5 U	55	54.2	99	52.0	93	4	43-141/34
79-00-5	1,1,2-Trichloroethane	5.5 U	55	49.4	90	48.7	87	1	56-123/28
87-61-6	1,2,3-Trichlorobenzene	5.5 U	55	32.3	59	30.7	55	5	12-151/31
96-18-4	1,2,3-Trichloropropane	5.5 U	55	50.7	92	49.5	89	2	45-137/33
120-82-1	1,2,4-Trichlorobenzene	5.5 U	55	37.0	67	35.5	64	4	13-148/39
95-63-6	1,2,4-Trimethylbenzene	5.5 U	55	52.6	96	50.5	91	4	39-131/37
108-67-8	1,3,5-Trimethylbenzene	5.5 U	55	55.6	101	53.5	96	4	39-132/35
127-18-4	Tetrachloroethylene	5.5 U	55	54.1	98	51.2	92	6	41-127/25
108-88-3	Toluene	5.5 U	55	51.1	93	49.6	89	3	48-126/23
79-01-6	Trichloroethylene	5.5 U	55	53.2	97	50.0	90	6	43-127/24
75-69-4	Trichlorofluoromethane	5.5 U	55	54.2	99	51.7	93	5	28-143/27
75-01-4	Vinyl chloride	5.5 U	55	50.4	92	48.0	86	5	32-138/30
108-05-4	Vinyl Acetate	27 U	275	ND	0*	ND	0*	nc	18-163/39
1330-20-7	Xylene (total)	16 U	165	154	93	148	88	4	43-128/22

CAS No.	Surrogate Recoveries	MS	MSD	T19964-4	Limits
1868-53-7	Dibromofluoromethane	111%	111%	111%	68-127%
2037-26-5	Toluene-D8	120%	120%	125%	76-139%
460-00-4	4-Bromofluorobenzene	124%	123%	131%	68-167%
17060-07-0	1,2-Dichloroethane-D4	97%	97%	98%	56-121%

Matrix Spike/Matrix Spike Duplicate Summary

Page 3 of 3

Job Number: T19964

Account: KLETXAU KLEINFELDER

Project: Falcon Refinery Superfund Site/Ingleside, TX

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
T19964-4MS	M0001137.D	1	12/10/07	LJ	n/a	n/a	VM47
T19964-4MSD	M0001138.D	1	12/10/07	LJ	n/a	n/a	VM47
T19964-4	M0001122.D	1	12/10/07	LJ	n/a	n/a	VM47

The QC reported here applies to the following samples:

Method: SW846 8260B

T19964-1, T19964-2, T19964-3, T19964-4, T19964-5, T19964-7, T19964-8

(a) Advisory control limits.

53

51



IT'S ALL IN THE CHEMISTRY

GC/MS Semi-volatiles

6

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Page 1 of 3

Job Number: T19964

Account: KLETXAU KLEINFELDER

Project: Falcon Refinery Superfund Site/Ingleside, TX

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP8652-MB	H24654.D	1	12/09/07	SC	12/07/07	OP8652	EH1386

The QC reported here applies to the following samples:

Method: SW846 8270C

T19964-1, T19964-2, T19964-3, T19964-5, T19964-7, T19964-8

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic acid	ND	830	42	ug/kg	
95-57-8	2-Chlorophenol	ND	170	51	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	170	38	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	170	56	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	170	53	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	830	56	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	330	110	ug/kg	
95-48-7	2-Methylphenol	ND	170	36	ug/kg	
	3&4-Methylphenol	ND	170	55	ug/kg	
100-02-7	4-Nitrophenol	ND	170	66	ug/kg	
87-86-5	Pentachlorophenol	ND	830	44	ug/kg	
108-95-2	Phenol	ND	170	67	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	170	47	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	170	45	ug/kg	
83-32-9	Acenaphthene	ND	170	40	ug/kg	
208-96-8	Acenaphthylene	ND	170	45	ug/kg	
120-12-7	Anthracene	ND	170	54	ug/kg	
56-55-3	Benzo(a)anthracene	ND	170	62	ug/kg	
50-32-8	Benzo(a)pyrene	ND	170	54	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	170	70	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	170	92	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	170	77	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	170	64	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	170	80	ug/kg	
100-51-6	Benzyl Alcohol	ND	170	59	ug/kg	
91-58-7	2-Chloronaphthalene	ND	170	46	ug/kg	
106-47-8	4-Chloroaniline	ND	170	47	ug/kg	
86-74-8	Carbazole	ND	170	72	ug/kg	
218-01-9	Chrysene	ND	170	55	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	170	62	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	170	36	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	170	51	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	170	57	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	170	52	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	170	46	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	170	73	ug/kg	

6.1

6

Method Blank Summary

Page 2 of 3

Job Number: T19964

Account: KLETXAU KLEINFELDER

Project: Falcon Refinery Superfund Site/Ingleside, TX

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP8652-MB	H24654.D	1	12/09/07	SC	12/07/07	OP8652	EH1386

The QC reported here applies to the following samples:

Method: SW846 8270C

T19964-1, T19964-2, T19964-3, T19964-5, T19964-7, T19964-8

6.1

6

CAS No.	Compound	Result	RL	MDL	Units	Q
606-20-2	2,6-Dinitrotoluene	ND	170	43	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	330	68	ug/kg	
53-70-3	Dibenz(a,h)anthracene	ND	170	58	ug/kg	
132-64-9	Dibenzofuran	ND	170	46	ug/kg	
122-39-4	Diphenylamine	ND	170	73	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	170	82	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	170	150	ug/kg	
84-66-2	Diethyl phthalate	ND	170	46	ug/kg	
131-11-3	Dimethyl phthalate	ND	170	41	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	170	83	ug/kg	
206-44-0	Fluoranthene	ND	170	75	ug/kg	
86-73-7	Fluorene	ND	170	51	ug/kg	
118-74-1	Hexachlorobenzene	ND	170	55	ug/kg	
87-68-3	Hexachlorobutadiene	ND	170	51	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	170	60	ug/kg	
67-72-1	Hexachloroethane	ND	170	49	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	170	65	ug/kg	
78-59-1	Isophorone	ND	170	44	ug/kg	
90-12-0	1-Methylnaphthalene	ND	170	40	ug/kg	
91-57-6	2-Methylnaphthalene	ND	170	44	ug/kg	
88-74-4	2-Nitroaniline	ND	170	43	ug/kg	
99-09-2	3-Nitroaniline	ND	170	62	ug/kg	
100-01-6	4-Nitroaniline	ND	170	91	ug/kg	
91-20-3	Naphthalene	ND	170	40	ug/kg	
98-95-3	Nitrobenzene	ND	170	47	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	170	67	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	170	73	ug/kg	
85-01-8	Phenanthrene	ND	170	62	ug/kg	
129-00-0	Pyrene	ND	170	81	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	170	44	ug/kg	

CAS No.	Surrogate Recoveries	Limits
367-12-4	2-Fluorophenol	65% 26-124%
4165-62-2	Phenol-d5	71% 19-106%

Method Blank Summary

Page 3 of 3

Job Number: T19964

Account: KLETXAU KLEINFELDER

Project: Falcon Refinery Superfund Site/Ingleside, TX

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP8652-MB	H24654.D	1	12/09/07	SC	12/07/07	OP8652	EH1386

The QC reported here applies to the following samples:

Method: SW846 8270C

T19964-1, T19964-2, T19964-3, T19964-5, T19964-7, T19964-8

6.1

6

CAS No.	Surrogate Recoveries	Limits
118-79-6	2,4,6-Tribromophenol	69% 18-129%
4165-60-0	Nitrobenzene-d5	73% 18-104%
321-60-8	2-Fluorobiphenyl	75% 21-114%
1718-51-0	Terphenyl-d14	65% 24-149%

Method Blank Summary

Page 1 of 3

Job Number: T19964

Account: KLETXAU KLEINFELDER

Project: Falcon Refinery Superfund Site/Ingleside, TX

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP8657-MB	A24816.D	1	12/12/07	SC	12/07/07	OP8657	EA1541

The QC reported here applies to the following samples:

Method: SW846 8270C

T19964-4

6.1

6

CAS No.	Compound	Result	RL	MDL	Units	Q
108-98-5	Benzenethiol	ND	170	170	ug/kg	
65-85-0	Benzoic acid	ND	830	42	ug/kg	
95-57-8	2-Chlorophenol	ND	170	51	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	170	38	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	170	56	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	170	53	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	830	56	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	330	110	ug/kg	
95-48-7	2-Methylphenol	ND	170	36	ug/kg	
	3&4-Methylphenol	ND	170	55	ug/kg	
100-02-7	4-Nitrophenol	ND	170	66	ug/kg	
87-86-5	Pentachlorophenol	ND	830	44	ug/kg	
108-95-2	Phenol	ND	170	67	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	170	47	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	170	45	ug/kg	
83-32-9	Acenaphthene	ND	170	40	ug/kg	
208-96-8	Acenaphthylene	ND	170	45	ug/kg	
120-12-7	Anthracene	ND	170	54	ug/kg	
56-55-3	Benzo(a)anthracene	ND	170	62	ug/kg	
50-32-8	Benzo(a)pyrene	ND	170	54	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	170	70	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	170	92	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	170	77	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	170	64	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	170	80	ug/kg	
100-51-6	Benzyl Alcohol	ND	170	59	ug/kg	
91-58-7	2-Chloronaphthalene	ND	170	46	ug/kg	
106-47-8	4-Chloroaniline	ND	170	47	ug/kg	
86-74-8	Carbazole	ND	170	72	ug/kg	
218-01-9	Chrysene	ND	170	55	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	170	62	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	170	36	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	170	51	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	170	57	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	170	52	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	170	46	ug/kg	

Method Blank Summary

Page 2 of 3

Job Number: T19964

Account: KLETXAU KLEINFELDER

Project: Falcon Refinery Superfund Site/Ingleside, TX

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP8657-MB	A24816.D	1	12/12/07	SC	12/07/07	OP8657	EA1541

The QC reported here applies to the following samples:

Method: SW846 8270C

T19964-4

6.1

6

CAS No.	Compound	Result	RL	MDL	Units	Q
121-14-2	2,4-Dinitrotoluene	ND	170	73	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	170	43	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	330	68	ug/kg	
57-97-6	7,12-Dimethylbenz(a)anthracene	ND	170	170	ug/kg	
226-36-8	Dibenz(a,h)acridine	ND	170	170	ug/kg	
53-70-3	Dibenz(a,h)anthracene	ND	170	58	ug/kg	
132-64-9	Dibenzofuran	ND	170	46	ug/kg	
122-39-4	Diphenylamine	ND	170	73	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	170	82	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	170	150	ug/kg	
84-66-2	Diethyl phthalate	ND	170	46	ug/kg	
131-11-3	Dimethyl phthalate	ND	170	41	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	170	83	ug/kg	
206-44-0	Fluoranthene	ND	170	75	ug/kg	
86-73-7	Fluorene	ND	170	51	ug/kg	
118-74-1	Hexachlorobenzene	ND	170	55	ug/kg	
87-68-3	Hexachlorobutadiene	ND	170	51	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	170	60	ug/kg	
67-72-1	Hexachloroethane	ND	170	49	ug/kg	
95-13-6	Indene	ND	830	830	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	170	65	ug/kg	
78-59-1	Isophorone	ND	170	44	ug/kg	
90-12-0	1-Methylnaphthalene	ND	170	40	ug/kg	
91-57-6	2-Methylnaphthalene	ND	170	44	ug/kg	
	6-Methyl Chrysene	ND	170	170	ug/kg	
88-74-4	2-Nitroaniline	ND	170	43	ug/kg	
99-09-2	3-Nitroaniline	ND	170	62	ug/kg	
100-01-6	4-Nitroaniline	ND	170	91	ug/kg	
91-20-3	Naphthalene	ND	170	40	ug/kg	
98-95-3	Nitrobenzene	ND	170	47	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	170	67	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	170	73	ug/kg	
85-01-8	Phenanthrene	ND	170	62	ug/kg	
129-00-0	Pyrene	ND	170	81	ug/kg	
91-22-5	Quinoline	ND	170	170	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	170	44	ug/kg	

Method Blank Summary

Page 3 of 3

Job Number: T19964

Account: KLETXAU KLEINFELDER

Project: Falcon Refinery Superfund Site/Ingleside, TX

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP8657-MB	A24816.D	1	12/12/07	SC	12/07/07	OP8657	EA1541

The QC reported here applies to the following samples:

Method: SW846 8270C

T19964-4

6.1

6

CAS No.	Compound	Result	RL	MDL	Units	Q
	1,3&1,4-Cyclohexanediol	ND	170	170	ug/kg	
931-17-9	1,2-Cyclohexanediol	ND	170	170	ug/kg	
98-85-1	1-Phenylethanol	ND	170	170	ug/kg	

CAS No.	Surrogate Recoveries	Limits
367-12-4	2-Fluorophenol	54% 26-124%
4165-62-2	Phenol-d5	65% 19-106%
118-79-6	2,4,6-Tribromophenol	71% 18-129%
4165-60-0	Nitrobenzene-d5	66% 18-104%
321-60-8	2-Fluorobiphenyl	73% 21-114%
1718-51-0	Terphenyl-d14	75% 24-149%

Method Blank Summary

Page 1 of 2

Job Number: T19964

Account: KLETXAU KLEINFELDER

Project: Falcon Refinery Superfund Site/Ingleside, TX

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP8660-MB	H24661.D	1	12/09/07	SC	12/08/07	OP8660	EH1386

The QC reported here applies to the following samples:

Method: SW846 8270C

T19964-6, T19964-9, T19964-10

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	10	0.58	ug/l	
95-57-8	2-Chlorophenol	ND	5.0	1.4	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	5.0	1.2	ug/l	
120-83-2	2,4-Dichlorophenol	ND	5.0	1.8	ug/l	
105-67-9	2,4-Dimethylphenol	ND	5.0	2.6	ug/l	
51-28-5	2,4-Dinitrophenol	ND	25	2.4	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	10	3.9	ug/l	
95-48-7	2-Methylphenol	ND	5.0	1.2	ug/l	
	3&4-Methylphenol	ND	5.0	1.1	ug/l	
100-02-7	4-Nitrophenol	ND	25	1.7	ug/l	
87-86-5	Pentachlorophenol	ND	25	4.0	ug/l	
108-95-2	Phenol	ND	5.0	0.52	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	5.0	1.8	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	5.0	1.5	ug/l	
83-32-9	Acenaphthene	ND	5.0	1.5	ug/l	
208-96-8	Acenaphthylene	ND	5.0	1.6	ug/l	
120-12-7	Anthracene	ND	5.0	1.8	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	5.0	2.5	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.0	2.1	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.0	1.7	ug/l	
100-51-6	Benzyl Alcohol	ND	5.0	1.9	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.0	1.2	ug/l	
106-47-8	4-Chloroaniline	ND	5.0	1.6	ug/l	
86-74-8	Carbazole	ND	5.0	1.7	ug/l	
218-01-9	Chrysene	ND	5.0	1.3	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.0	1.6	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.0	1.2	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.0	1.5	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	5.0	1.6	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	5.0	1.6	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	5.0	1.5	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	5.0	2.4	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	5.0	1.7	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	10	3.7	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	5.0	1.3	ug/l	
132-64-9	Dibenzofuran	ND	5.0	2.3	ug/l	

6.1

6

Method Blank Summary

Page 2 of 2

Job Number: T19964

Account: KLETXAU KLEINFELDER

Project: Falcon Refinery Superfund Site/Ingleside, TX

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP8660-MB	H24661.D	1	12/09/07	SC	12/08/07	OP8660	EH1386

The QC reported here applies to the following samples:

Method: SW846 8270C

T19964-6, T19964-9, T19964-10

6.1

6

CAS No.	Compound	Result	RL	MDL	Units	Q
122-39-4	Diphenylamine	ND	5.0	1.9	ug/l	
84-74-2	Di-n-butyl phthalate	ND	5.0	1.6	ug/l	
117-84-0	Di-n-octyl phthalate	ND	5.0	1.3	ug/l	
84-66-2	Diethyl phthalate	ND	5.0	1.1	ug/l	
131-11-3	Dimethyl phthalate	ND	5.0	1.8	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	5.0	1.5	ug/l	
206-44-0	Fluoranthene	ND	5.0	1.6	ug/l	
86-73-7	Fluorene	ND	5.0	2.1	ug/l	
118-74-1	Hexachlorobenzene	ND	5.0	1.9	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	1.9	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	5.0	1.4	ug/l	
67-72-1	Hexachloroethane	ND	5.0	1.7	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	5.0	2.4	ug/l	
78-59-1	Isophorone	ND	5.0	1.2	ug/l	
90-12-0	1-Methylnaphthalene	ND	5.0	1.7	ug/l	
91-57-6	2-Methylnaphthalene	ND	5.0	2.0	ug/l	
88-74-4	2-Nitroaniline	ND	5.0	2.1	ug/l	
99-09-2	3-Nitroaniline	ND	5.0	2.7	ug/l	
100-01-6	4-Nitroaniline	ND	5.0	5.0	ug/l	
91-20-3	Naphthalene	ND	5.0	1.5	ug/l	
98-95-3	Nitrobenzene	ND	5.0	1.4	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.0	1.7	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.0	1.9	ug/l	
85-01-8	Phenanthrene	ND	5.0	1.6	ug/l	
129-00-0	Pyrene	ND	5.0	1.1	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	1.0	ug/l	

CAS No.	Surrogate Recoveries	Limits
367-12-4	2-Fluorophenol	30% 10-66%
4165-62-2	Phenol-d5	22% 10-53%
118-79-6	2,4,6-Tribromophenol	43% 32-128%
4165-60-0	Nitrobenzene-d5	55% 29-115%
321-60-8	2-Fluorobiphenyl	59% 34-113%
1718-51-0	Terphenyl-d14	52% 12-145%

Method Blank Summary

Page 1 of 1

Job Number: T19964

Account: KLETXAU KLEINFELDER

Project: Falcon Refinery Superfund Site/Ingleside, TX

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP8671-MB	A24733.D	1	12/09/07	SC	12/08/07	OP8671	EA1538

The QC reported here applies to the following samples:

Method: SW846 8270C BY SIM

T19964-6, T19964-9, T19964-10

6.1

6

CAS No.	Compound	Result	RL	MDL	Units	Q
56-55-3	Benzo(a)anthracene	ND	0.20	0.055	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.20	0.099	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.20	0.056	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.20	0.046	ug/l	

CAS No. Surrogate Recoveries Limits

4165-60-0	Nitrobenzene-d5	54% ^a	35-114%
321-60-8	2-Fluorobiphenyl	51% ^a	43-116%
1718-51-0	Terphenyl-d14	65% ^a	33-141%

(a) Recovery was adjusted for 10x spiking.

Blank Spike Summary

Page 1 of 3

Job Number: T19964

Account: KLETXAU KLEINFELDER

Project: Falcon Refinery Superfund Site/Ingleside, TX

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP8652-BS	H24655.D	1	12/09/07	SC	12/07/07	OP8652	EH1386

The QC reported here applies to the following samples:

Method: SW846 8270C

T19964-1, T19964-2, T19964-3, T19964-5, T19964-7, T19964-8

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
65-85-0	Benzoic acid	1670	988	59	16-113
95-57-8	2-Chlorophenol	1670	1230	74	48-112
59-50-7	4-Chloro-3-methyl phenol	1670	1320	79	55-115
120-83-2	2,4-Dichlorophenol	1670	1220	73	53-110
105-67-9	2,4-Dimethylphenol	1670	1130	68	41-105
51-28-5	2,4-Dinitrophenol	1670	1390	83	10-140
534-52-1	4,6-Dinitro-o-cresol	1670	1430	86	37-122
95-48-7	2-Methylphenol	1670	1180	71	47-112
	3&4-Methylphenol	3330	2350	71	47-115
100-02-7	4-Nitrophenol	1670	1440	86	22-130
87-86-5	Pentachlorophenol	1670	1850	111	47-135
108-95-2	Phenol	1670	1260	76	44-115
95-95-4	2,4,5-Trichlorophenol	1670	1250	75	47-123
88-06-2	2,4,6-Trichlorophenol	1670	1280	77	52-117
83-32-9	Acenaphthene	1670	1220	73	50-115
208-96-8	Acenaphthylene	1670	1480	89	59-127
120-12-7	Anthracene	1670	1260	76	58-117
56-55-3	Benzo(a)anthracene	1670	1320	79	62-114
50-32-8	Benzo(a)pyrene	1670	1320	79	59-117
205-99-2	Benzo(b)fluoranthene	1670	1190	71	51-123
191-24-2	Benzo(g,h,i)perylene	1670	1650	99	35-141
207-08-9	Benzo(k)fluoranthene	1670	1290	77	53-130
101-55-3	4-Bromophenyl phenyl ether	1670	1350	81	60-118
85-68-7	Butyl benzyl phthalate	1670	1390	83	56-126
100-51-6	Benzyl Alcohol	1670	1220	73	48-112
91-58-7	2-Chloronaphthalene	1670	1330	80	52-119
106-47-8	4-Chloroaniline	1670	1070	64	12-110
86-74-8	Carbazole	1670	1180	71	44-151
218-01-9	Chrysene	1670	1380	83	63-112
111-91-1	bis(2-Chloroethoxy)methane	1670	1200	72	47-111
111-44-4	bis(2-Chloroethyl)ether	1670	1100	66	42-112
7005-72-3	4-Chlorophenyl phenyl ether	1670	1320	79	56-122
95-50-1	1,2-Dichlorobenzene	1670	1170	70	48-112
541-73-1	1,3-Dichlorobenzene	1670	1190	71	50-110
106-46-7	1,4-Dichlorobenzene	1670	1220	73	49-112
121-14-2	2,4-Dinitrotoluene	1670	1410	85	56-127

6.2
6

Blank Spike Summary

Page 2 of 3

Job Number: T19964

Account: KLETXAU KLEINFELDER

Project: Falcon Refinery Superfund Site/Ingleside, TX

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP8652-BS	H24655.D	1	12/09/07	SC	12/07/07	OP8652	EH1386

The QC reported here applies to the following samples:

Method: SW846 8270C

T19964-1, T19964-2, T19964-3, T19964-5, T19964-7, T19964-8

6.2
6

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
606-20-2	2,6-Dinitrotoluene	1670	1330	80	61-121
91-94-1	3,3'-Dichlorobenzidine	1670	1660	100	33-182
53-70-3	Dibenz(a,h)anthracene	1670	1650	99	40-139
132-64-9	Dibenzofuran	1670	1210	73	56-120
122-39-4	Diphenylamine	1670	1390	83	62-147
84-74-2	Di-n-butyl phthalate	1670	1540	92	60-120
117-84-0	Di-n-octyl phthalate	1670	1480	89	41-142
84-66-2	Diethyl phthalate	1670	1310	79	60-126
131-11-3	Dimethyl phthalate	1670	1320	79	61-121
117-81-7	bis(2-Ethylhexyl)phthalate	1670	1740	104	55-130
206-44-0	Fluoranthene	1670	1650	99	56-123
86-73-7	Fluorene	1670	1180	71	54-118
118-74-1	Hexachlorobenzene	1670	1310	79	61-117
87-68-3	Hexachlorobutadiene	1670	1280	77	45-114
77-47-4	Hexachlorocyclopentadiene	1670	2270	136	11-136
67-72-1	Hexachloroethane	1670	1190	71	47-118
193-39-5	Indeno(1,2,3-cd)pyrene	1670	1360	82	37-136
78-59-1	Isophorone	1670	1270	76	51-115
90-12-0	1-Methylnaphthalene	1670	1140	68	50-106
91-57-6	2-Methylnaphthalene	1670	1200	72	49-114
88-74-4	2-Nitroaniline	1670	1390	83	52-126
99-09-2	3-Nitroaniline	1670	1470	88	35-151
100-01-6	4-Nitroaniline	1670	2490	149	65-180
91-20-3	Naphthalene	1670	1170	70	49-111
98-95-3	Nitrobenzene	1670	1290	77	47-117
621-64-7	N-Nitroso-di-n-propylamine	1670	1390	83	44-119
86-30-6	N-Nitrosodiphenylamine	1670	1390	83	63-147
85-01-8	Phenanthrene	1670	1300	78	60-117
129-00-0	Pyrene	1670	1040	62	53-124
120-82-1	1,2,4-Trichlorobenzene	1670	1260	76	52-116

CAS No.	Surrogate Recoveries	BSP	Limits
367-12-4	2-Fluorophenol	74%	26-124%
4165-62-2	Phenol-d5	75%	19-106%

Blank Spike Summary

Page 3 of 3

Job Number: T19964

Account: KLETXAU KLEINFELDER

Project: Falcon Refinery Superfund Site/Ingleside, TX

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP8652-BS	H24655.D	1	12/09/07	SC	12/07/07	OP8652	EH1386

The QC reported here applies to the following samples:

Method: SW846 8270C

T19964-1, T19964-2, T19964-3, T19964-5, T19964-7, T19964-8

6.2
6

CAS No.	Surrogate Recoveries	BSP	Limits
118-79-6	2,4,6-Tribromophenol	86%	18-129%
4165-60-0	Nitrobenzene-d5	76%	18-104%
321-60-8	2-Fluorobiphenyl	75%	21-114%
1718-51-0	Terphenyl-d14	69%	24-149%

Blank Spike Summary

Page 1 of 3

Job Number: T19964

Account: KLETXAU KLEINFELDER

Project: Falcon Refinery Superfund Site/Ingleside, TX

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP8657-BS	A24817.D	1	12/12/07	SC	12/07/07	OP8657	EA1541

The QC reported here applies to the following samples:

Method: SW846 8270C

T19964-4

6.2

6

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
65-85-0	Benzoic acid	1670	1540	92	16-113
95-57-8	2-Chlorophenol	1670	1460	88	48-112
59-50-7	4-Chloro-3-methyl phenol	1670	1670	100	55-115
120-83-2	2,4-Dichlorophenol	1670	1490	89	53-110
105-67-9	2,4-Dimethylphenol	1670	1290	77	41-105
51-28-5	2,4-Dinitrophenol	1670	1480	89	10-140
534-52-1	4,6-Dinitro-o-cresol	1670	1510	91	37-122
95-48-7	2-Methylphenol	1670	1370	82	47-112
	3&4-Methylphenol	3330	2890	87	47-115
100-02-7	4-Nitrophenol	1670	1810	109	22-130
87-86-5	Pentachlorophenol	1670	1810	109	47-135
108-95-2	Phenol	1670	1430	86	44-115
95-95-4	2,4,5-Trichlorophenol	1670	1580	95	47-123
88-06-2	2,4,6-Trichlorophenol	1670	1570	94	52-117
83-32-9	Acenaphthene	1670	1470	88	50-115
208-96-8	Acenaphthylene	1670	1820	109	59-127
120-12-7	Anthracene	1670	1540	92	58-117
56-55-3	Benzo(a)anthracene	1670	1570	94	62-114
50-32-8	Benzo(a)pyrene	1670	1600	96	59-117
205-99-2	Benzo(b)fluoranthene	1670	1610	97	51-123
191-24-2	Benzo(g,h,i)perylene	1670	1560	94	35-141
207-08-9	Benzo(k)fluoranthene	1670	1460	88	53-130
101-55-3	4-Bromophenyl phenyl ether	1670	1590	95	60-118
85-68-7	Butyl benzyl phthalate	1670	1740	104	56-126
100-51-6	Benzyl Alcohol	1670	1560	94	48-112
91-58-7	2-Chloronaphthalene	1670	1630	98	52-119
106-47-8	4-Chloroaniline	1670	1210	73	12-110
86-74-8	Carbazole	1670	1820	109	44-151
218-01-9	Chrysene	1670	1650	99	63-112
111-91-1	bis(2-Chloroethoxy)methane	1670	1480	89	47-111
111-44-4	bis(2-Chloroethyl)ether	1670	1370	82	42-112
7005-72-3	4-Chlorophenyl phenyl ether	1670	1540	92	56-122
95-50-1	1,2-Dichlorobenzene	1670	1460	88	48-112
541-73-1	1,3-Dichlorobenzene	1670	1420	85	50-110
106-46-7	1,4-Dichlorobenzene	1670	1450	87	49-112
121-14-2	2,4-Dinitrotoluene	1670	1820	109	56-127

Blank Spike Summary

Page 2 of 3

Job Number: T19964

Account: KLETXAU KLEINFELDER

Project: Falcon Refinery Superfund Site/Ingleside, TX

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP8657-BS	A24817.D	1	12/12/07	SC	12/07/07	OP8657	EA1541

The QC reported here applies to the following samples:

Method: SW846 8270C

T19964-4

6.2
6

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
606-20-2	2,6-Dinitrotoluene	1670	1800	108	61-121
91-94-1	3,3'-Dichlorobenzidine	1670	3230	194*	33-182
53-70-3	Dibenz(a,h)anthracene	1670	1670	100	40-139
132-64-9	Dibenzofuran	1670	1600	96	56-120
122-39-4	Diphenylamine	1670	1760	106	62-147
84-74-2	Di-n-butyl phthalate	1670	1660	100	60-120
117-84-0	Di-n-octyl phthalate	1670	1470	88	41-142
84-66-2	Diethyl phthalate	1670	1500	90	60-126
131-11-3	Dimethyl phthalate	1670	1650	99	61-121
117-81-7	bis(2-Ethylhexyl)phthalate	1670	1930	116	55-130
206-44-0	Fluoranthene	1670	1670	100	56-123
86-73-7	Fluorene	1670	1570	94	54-118
118-74-1	Hexachlorobenzene	1670	1630	98	61-117
87-68-3	Hexachlorobutadiene	1670	1540	92	45-114
77-47-4	Hexachlorocyclopentadiene	1670	1900	114	11-136
67-72-1	Hexachloroethane	1670	1340	80	47-118
193-39-5	Indeno(1,2,3-cd)pyrene	1670	1790	107	37-136
78-59-1	Isophorone	1670	1630	98	51-115
90-12-0	1-Methylnaphthalene	1670	1490	89	50-106
91-57-6	2-Methylnaphthalene	1670	1430	86	49-114
88-74-4	2-Nitroaniline	1670	1690	101	52-126
99-09-2	3-Nitroaniline	1670	1900	114	35-151
100-01-6	4-Nitroaniline	1670	3130	188*	65-180
91-20-3	Naphthalene	1670	1510	91	49-111
98-95-3	Nitrobenzene	1670	1510	91	47-117
621-64-7	N-Nitroso-di-n-propylamine	1670	1670	100	44-119
86-30-6	N-Nitrosodiphenylamine	1670	1760	106	63-147
85-01-8	Phenanthrene	1670	1620	97	60-117
129-00-0	Pyrene	1670	1530	92	53-124
120-82-1	1,2,4-Trichlorobenzene	1670	1520	91	52-116

CAS No.	Surrogate Recoveries	BSP	Limits
367-12-4	2-Fluorophenol	82%	26-124%
4165-62-2	Phenol-d5	88%	19-106%

Blank Spike Summary

Page 3 of 3

Job Number: T19964

Account: KLETXAU KLEINFELDER

Project: Falcon Refinery Superfund Site/Ingleside, TX

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP8657-BS	A24817.D	1	12/12/07	SC	12/07/07	OP8657	EA1541

The QC reported here applies to the following samples:

Method: SW846 8270C

T19964-4

6.2
6

CAS No.	Surrogate Recoveries	BSP	Limits
118-79-6	2,4,6-Tribromophenol	100%	18-129%
4165-60-0	Nitrobenzene-d5	85%	18-104%
321-60-8	2-Fluorobiphenyl	89%	21-114%
1718-51-0	Terphenyl-d14	89%	24-149%

Blank Spike Summary

Page 1 of 2

Job Number: T19964

Account: KLETXAU KLEINFELDER

Project: Falcon Refinery Superfund Site/Ingleside, TX

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP8660-BS	H24662.D	1	12/09/07	SC	12/08/07	OP8660	EH1386

The QC reported here applies to the following samples:

Method: SW846 8270C

T19964-6, T19964-9, T19964-10

6.2
6

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
65-85-0	Benzoic Acid	50	16.9	34	10-51
95-57-8	2-Chlorophenol	50	36.1	72	47-87
59-50-7	4-Chloro-3-methyl phenol	50	39.7	79	43-109
120-83-2	2,4-Dichlorophenol	50	37.7	75	42-106
105-67-9	2,4-Dimethylphenol	50	35.9	72	37-100
51-28-5	2,4-Dinitrophenol	50	46.0	92	23-113
534-52-1	4,6-Dinitro-o-cresol	50	46.3	93	30-115
95-48-7	2-Methylphenol	50	31.1	62	31-95
	3&4-Methylphenol	100	56.8	57	38-78
100-02-7	4-Nitrophenol	50	24.2	48	13-52
87-86-5	Pentachlorophenol	50	59.8	120	42-129
108-95-2	Phenol	50	18.2	36	10-53
95-95-4	2,4,5-Trichlorophenol	50	37.5	75	40-116
88-06-2	2,4,6-Trichlorophenol	50	39.0	78	43-113
83-32-9	Acenaphthene	50	37.9	76	41-110
208-96-8	Acenaphthylene	50	45.8	92	50-123
120-12-7	Anthracene	50	43.3	87	64-107
191-24-2	Benzo(g,h,i)perylene	50	44.1	88	31-139
101-55-3	4-Bromophenyl phenyl ether	50	42.4	85	52-115
85-68-7	Butyl benzyl phthalate	50	47.2	94	38-132
100-51-6	Benzyl Alcohol	50	33.5	67	20-97
91-58-7	2-Chloronaphthalene	50	39.8	80	40-115
106-47-8	4-Chloroaniline	50	40.6	81	26-131
86-74-8	Carbazole	50	43.4	87	39-155
218-01-9	Chrysene	50	47.0	94	55-112
111-91-1	bis(2-Chloroethoxy)methane	50	37.9	76	45-108
111-44-4	bis(2-Chloroethyl)ether	50	36.0	72	41-107
7005-72-3	4-Chlorophenyl phenyl ether	50	42.8	86	47-118
95-50-1	1,2-Dichlorobenzene	50	35.8	72	36-98
541-73-1	1,3-Dichlorobenzene	50	37.5	75	37-94
106-46-7	1,4-Dichlorobenzene	50	36.7	73	38-95
121-14-2	2,4-Dinitrotoluene	50	47.5	95	46-125
606-20-2	2,6-Dinitrotoluene	50	41.3	83	54-118
91-94-1	3,3'-Dichlorobenzidine	50	67.5	135	62-153
53-70-3	Dibenzo(a,h)anthracene	50	47.7	95	37-136
132-64-9	Dibenzofuran	50	39.2	78	41-122

Blank Spike Summary

Page 2 of 2

Job Number: T19964
 Account: KLETXAU KLEINFELDER
 Project: Falcon Refinery Superfund Site/Ingleside, TX

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP8660-BS	H24662.D	1	12/09/07	SC	12/08/07	OP8660	EH1386

The QC reported here applies to the following samples:

Method: SW846 8270C

T19964-6, T19964-9, T19964-10

6.2

6

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
122-39-4	Diphenylamine	50	50.7	101	50-157
84-74-2	Di-n-butyl phthalate	50	52.8	106	50-120
117-84-0	Di-n-octyl phthalate	50	49.5	99	36-132
84-66-2	Diethyl phthalate	50	44.5	89	49-120
131-11-3	Dimethyl phthalate	50	42.3	85	53-119
117-81-7	bis(2-Ethylhexyl)phthalate	50	59.1	118	50-128
206-44-0	Fluoranthene	50	54.6	109	48-119
86-73-7	Fluorene	50	40.7	81	44-116
118-74-1	Hexachlorobenzene	50	43.7	87	53-117
87-68-3	Hexachlorobutadiene	50	38.0	76	27-100
77-47-4	Hexachlorocyclopentadiene	50	58.3	117*	10-108
67-72-1	Hexachloroethane	50	36.4	73	35-96
193-39-5	Indeno(1,2,3-cd)pyrene	50	38.1	76	34-135
78-59-1	Isophorone	50	39.4	79	49-110
90-12-0	1-Methylnaphthalene	50	36.1	72	40-99
91-57-6	2-Methylnaphthalene	50	37.1	74	38-108
88-74-4	2-Nitroaniline	50	42.7	85	46-122
99-09-2	3-Nitroaniline	50	52.9	106	42-156
100-01-6	4-Nitroaniline	50	93.0	186	60-218
91-20-3	Naphthalene	50	36.3	73	41-100
98-95-3	Nitrobenzene	50	39.5	79	47-107
621-64-7	N-Nitroso-di-n-propylamine	50	44.4	89	43-115
86-30-6	N-Nitrosodiphenylamine	50	50.7	101	50-157
85-01-8	Phenanthrene	50	43.5	87	55-112
129-00-0	Pyrene	50	39.2	78	43-126
120-82-1	1,2,4-Trichlorobenzene	50	37.9	76	35-104

CAS No.	Surrogate Recoveries	BSP	Limits
367-12-4	2-Fluorophenol	47%	10-66%
4165-62-2	Phenol-d5	30%	10-53%
118-79-6	2,4,6-Tribromophenol	86%	32-128%
4165-60-0	Nitrobenzene-d5	74%	29-115%
321-60-8	2-Fluorobiphenyl	71%	34-113%
1718-51-0	Terphenyl-d14	81%	12-145%

Matrix Spike/Matrix Spike Duplicate Summary

Page 1 of 3

Job Number: T19964

Account: KLETXAU KLEINFELDER

Project: Falcon Refinery Superfund Site/Ingleside, TX

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP8652-MS	A24830.D	1	12/12/07	SC	12/07/07	OP8652	EA1541
OP8652-MSD	A24831.D	1	12/12/07	SC	12/07/07	OP8652	EA1541
T19944-1	A24825.D	1	12/12/07	SC	12/07/07	OP8652	EA1541

The QC reported here applies to the following samples:

Method: SW846 8270C

T19964-1, T19964-2, T19964-3, T19964-5, T19964-7, T19964-8

CAS No.	Compound	T19944-1 ug/kg	Spike ug/kg	MS ug/kg	MS %	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
95-57-8	2-Chlorophenol	300 U	2980	2040	69	2140	72	5	33-109/27
59-50-7	4-Chloro-3-methyl phenol	300 U	2980	2290	77	2390	80	4	44-118/22
120-83-2	2,4-Dichlorophenol	300 U	2980	2030	68	2140	72	5	34-117/28
105-67-9	2,4-Dimethylphenol	300 U	2980	1890	63	1840	62	3	37-113/23
51-28-5	2,4-Dinitrophenol	1500 U	2980	1450	49	1660	56	14	10-119/25
534-52-1	4,6-Dinitro-o-cresol	590 U	2980	2060	69	2130	71	3	38-103/26
95-48-7	2-Methylphenol	300 U	2980	2010	68	2170	73	8	38-109/26
	3&4-Methylphenol	300 U	5950	4390	74	4530	76	3	36-115/26
100-02-7	4-Nitrophenol	300 U	2980	2470	83	2740	92	10	12-142/27
87-86-5	Pentachlorophenol	1500 U	2980	2400	81	2430	82	1	43-134/20
108-95-2	Phenol	300 U	2980	2180	73	2180	73	0	33-109/23
95-95-4	2,4,5-Trichlorophenol	300 U	2980	2110	71	2400	81	13	35-123/21
88-06-2	2,4,6-Trichlorophenol	300 U	2980	2100	71	2470	83	16	31-129/21
83-32-9	Acenaphthene	300 U	2980	1880	63	1880	63	0	39-113/21
208-96-8	Acenaphthylene	300 U	2980	2280	77	2230	75	2	45-125/23
120-12-7	Anthracene	300 U	2980	2010	68	1960	66	3	41-122/19
56-55-3	Benzo(a)anthracene	300 U	2980	2230	75	2110	71	6	48-114/18
50-32-8	Benzo(a)pyrene	300 U	2980	2190	74	2190	73	0	45-114/20
205-99-2	Benzo(b)fluoranthene	300 U	2980	2370	80	2100	70	12	42-116/23
191-24-2	Benzo(g,h,i)perylene	300 U	2980	2750	92	2750	92	0	22-131/35
207-08-9	Benzo(k)fluoranthene	300 U	2980	2130	72	2090	70	2	39-126/22
101-55-3	4-Bromophenyl phenyl ether	300 U	2980	2050	69	2050	69	0	38-127/19
85-68-7	Butyl benzyl phthalate	300 U	2980	2720	91	2660	89	2	32-147/24
100-51-6	Benzyl Alcohol	300 U	2980	2210	74	2300	77	4	36-111/26
91-58-7	2-Chloronaphthalene	300 U	2980	2120	71	2130	71	0	36-119/23
106-47-8	4-Chloroaniline	300 U	2980	1730	58	1880	63	8	14-114/27
86-74-8	Carbazole	300 U	2980	2400	81	2330	78	3	27-158/19
218-01-9	Chrysene	300 U	2980	2330	78	2230	75	4	47-113/19
111-91-1	bis(2-Chloroethoxy)methane	300 U	2980	1990	67	1950	65	2	35-109/25
111-44-4	bis(2-Chloroethyl)ether	300 U	2980	1900	64	1810	61	5	29-109/26
7005-72-3	4-Chlorophenyl phenyl ether	300 U	2980	1940	65	1960	66	1	41-123/21
95-50-1	1,2-Dichlorobenzene	300 U	2980	1860	62	1510	51	21	23-114/30
541-73-1	1,3-Dichlorobenzene	300 U	2980	1750	59	1320	44	28*	21-112/27
106-46-7	1,4-Dichlorobenzene	300 U	2980	1760	59	1340	45	27	23-114/27
121-14-2	2,4-Dinitrotoluene	300 U	2980	2230	75	2520	85	12	42-134/25
606-20-2	2,6-Dinitrotoluene	300 U	2980	2300	77	2480	83	8	49-119/21

Matrix Spike/Matrix Spike Duplicate Summary

Page 2 of 3

Job Number: T19964

Account: KLETXAU KLEINFELDER

Project: Falcon Refinery Superfund Site/Ingleside, TX

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP8652-MS	A24830.D	1	12/12/07	SC	12/07/07	OP8652	EA1541
OP8652-MSD	A24831.D	1	12/12/07	SC	12/07/07	OP8652	EA1541
T19944-1	A24825.D	1	12/12/07	SC	12/07/07	OP8652	EA1541

The QC reported here applies to the following samples:

Method: SW846 8270C

T19964-1, T19964-2, T19964-3, T19964-5, T19964-7, T19964-8

CAS No.	Compound	T19944-1 ug/kg	Spike ug/kg	MS ug/kg	MS %	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
91-94-1	3,3'-Dichlorobenzidine	590 U	2980	2890	97	3520	118	20	37-149/27
53-70-3	Dibenz(a,h)anthracene	300 U	2980	2580	87	2550	86	1	23-135/28
132-64-9	Dibenzofuran	300 U	2980	1930	65	1960	66	2	39-126/19
122-39-4	Diphenylamine	300 U	2980	2250	76	2270	76	1	38-161/25
84-74-2	Di-n-butyl phthalate	300 U	2980	2220	75	2220	74	0	43-124/20
117-84-0	Di-n-octyl phthalate	300 U	2980	2780	93	2700	91	3	22-162/29
84-66-2	Diethyl phthalate	300 U	2980	1930	65	2020	68	5	44-129/21
131-11-3	Dimethyl phthalate	300 U	2980	2160	73	2330	78	8	48-122/16
117-81-7	bis(2-Ethylhexyl)phthalate	300 U	2980	3080	103	3080	103	0	41-138/24
206-44-0	Fluoranthene	300 U	2980	2100	71	2030	68	3	29-127/24
86-73-7	Fluorene	300 U	2980	1940	65	2050	69	6	39-122/22
118-74-1	Hexachlorobenzene	300 U	2980	2170	73	2070	69	5	46-119/24
87-68-3	Hexachlorobutadiene	300 U	2980	1700	57	1400	47	19	15-117/26
77-47-4	Hexachlorocyclopentadiene	300 U	2980	1890	63	1830	61	3	12-103/29
67-72-1	Hexachloroethane	300 U	2980	1620	54	1260	42	25	18-116/30
193-39-5	Indeno(1,2,3-cd)pyrene	300 U	2980	2930	98	2840	95	3	23-127/32
78-59-1	Isophorone	300 U	2980	2080	70	2130	71	2	36-116/24
90-12-0	1-Methylnaphthalene	300 U	2980	1820	61	1550	52	16	38-105/25
91-57-6	2-Methylnaphthalene	300 U	2980	1760	59	1580	53	11	37-113/26
88-74-4	2-Nitroaniline	300 U	2980	2280	77	2620	88	14	38-131/18
99-09-2	3-Nitroaniline	300 U	2980	2630	88	2800	94	6	30-144/23
100-01-6	4-Nitroaniline	300 U	2980	4030	135	4690	157	15	54-196/32
91-20-3	Naphthalene	300 U	2980	1910	64	1600	54	18	28-113/25
98-95-3	Nitrobenzene	300 U	2980	2060	69	1840	62	11	32-113/26
621-64-7	N-Nitroso-di-n-propylamine	300 U	2980	2320	78	2340	79	1	34-118/24
86-30-6	N-Nitrosodiphenylamine	300 U	2980	2250	76	2270	76	1	40-157/24
85-01-8	Phenanthrene	300 U	2980	2190	74	2030	68	8	40-121/19
129-00-0	Pyrene	300 U	2980	2300	77	2210	74	4	32-144/24
120-82-1	1,2,4-Trichlorobenzene	300 U	2980	1820	61	1530	51	17	25-120/26

CAS No.	Surrogate Recoveries	MS	MSD	T19944-1	Limits
367-12-4	2-Fluorophenol	64%	66%	54%	26-124%
4165-62-2	Phenol-d5	69%	70%	62%	19-106%
118-79-6	2,4,6-Tribromophenol	76%	77%	76%	18-129%

6.9

6.9

Matrix Spike/Matrix Spike Duplicate Summary

Page 3 of 3

Job Number: T19964

Account: KLETXAU KLEINFELDER

Project: Falcon Refinery Superfund Site/Ingleside, TX

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP8652-MS	A24830.D	1	12/12/07	SC	12/07/07	OP8652	EA1541
OP8652-MSD	A24831.D	1	12/12/07	SC	12/07/07	OP8652	EA1541
T19944-1	A24825.D	1	12/12/07	SC	12/07/07	OP8652	EA1541

The QC reported here applies to the following samples:

Method: SW846 8270C

T19964-1, T19964-2, T19964-3, T19964-5, T19964-7, T19964-8

CAS No.	Surrogate Recoveries	MS	MSD	T19944-1	Limits
4165-60-0	Nitrobenzene-d5	66%	66%	64%	18-104%
321-60-8	2-Fluorobiphenyl	65%	71%	68%	21-114%
1718-51-0	Terphenyl-d14	80%	78%	69%	24-149%

69

6

Matrix Spike/Matrix Spike Duplicate Summary

Page 1 of 3

Job Number: T19964

Account: KLETXAU KLEINFELDER

Project: Falcon Refinery Superfund Site/Ingleside, TX

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP8657-MS	A24852.D	1	12/13/07	SC	12/07/07	OP8657	EA1542
OP8657-MSD	A24853.D	1	12/13/07	SC	12/07/07	OP8657	EA1542
T19964-4	A24835.D	1	12/12/07	SC	12/07/07	OP8657	EA1541

The QC reported here applies to the following samples:

Method: SW846 8270C

T19964-4

CAS No.	Compound	T19964-4 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
65-85-0	Benzoic acid	910 U	1810	321	18	336	18	5	11-74/19	
95-57-8	2-Chlorophenol	180 U	1810	969	53	1040	56	7	33-109/27	
59-50-7	4-Chloro-3-methyl phenol	180 U	1810	1270	70	1200	65	6	44-118/22	
120-83-2	2,4-Dichlorophenol	180 U	1810	1010	56	962	52	5	34-117/28	
105-67-9	2,4-Dimethylphenol	180 U	1810	959	53	885	48	8	37-113/23	
51-28-5	2,4-Dinitrophenol	910 U	1810	692	38	718	39	4	10-119/25	
534-52-1	4,6-Dinitro-o-cresol	370 U	1810	969	53	1060	57	9	38-103/26	
95-48-7	2-Methylphenol	180 U	1810	913	50	929	50	2	38-109/26	
	3&4-Methylphenol	180 U	3630	2040	56	1880	51	8	36-115/26	
100-02-7	4-Nitrophenol	180 U	1810	1420	78	1500	81	5	12-142/27	
87-86-5	Pentachlorophenol	910 U	1810	1330	73	1440	78	8	43-134/20	
108-95-2	Phenol	180 U	1810	966	53	926	50	4	33-109/23	
95-95-4	2,4,5-Trichlorophenol	180 U	1810	1330	73	1240	67	7	35-123/21	
88-06-2	2,4,6-Trichlorophenol	180 U	1810	1270	70	1200	65	6	31-129/21	
83-32-9	Acenaphthene	180 U	1810	1190	66	1130	61	5	39-113/21	
208-96-8	Acenaphthylene	180 U	1810	1460	80	1260	68	15	45-125/23	
120-12-7	Anthracene	180 U	1810	1400	77	1510	82	8	41-122/19	
56-55-3	Benzo(a)anthracene	180 U	1810	1550	85	1550	84	0	48-114/18	
50-32-8	Benzo(a)pyrene	180 U	1810	1550	85	1530	83	1	45-114/20	
205-99-2	Benzo(b)fluoranthene	180 U	1810	1370	76	1510	82	10	42-116/23	
191-24-2	Benzo(g,h,i)perylene	180 U	1810	2320	128	2450	133*	5	22-131/35	
207-08-9	Benzo(k)fluoranthene	180 U	1810	1430	79	1470	80	3	39-126/22	
101-55-3	4-Bromophenyl phenyl ether	180 U	1810	1490	82	1620	88	8	38-127/19	
85-68-7	Butyl benzyl phthalate	180 U	1810	2250	124	2530	137	12	32-147/24	
100-51-6	Benzyl Alcohol	180 U	1810	951	52	1000	54	5	36-111/26	
91-58-7	2-Chloronaphthalene	180 U	1810	1190	66	1040	56	13	36-119/23	
106-47-8	4-Chloroaniline	180 U	1810	913	50	906	49	1	14-114/27	
86-74-8	Carbazole	180 U	1810	1570	87	1710	93	9	27-158/19	
218-01-9	Chrysene	180 U	1810	1590	88	1600	87	1	47-113/19	
111-91-1	bis(2-Chloroethoxy)methane	180 U	1810	1000	55	911	49	9	35-109/25	
111-44-4	bis(2-Chloroethyl)ether	180 U	1810	881	49	912	49	3	29-109/26	
7005-72-3	4-Chlorophenyl phenyl ether	180 U	1810	1330	73	1240	67	7	41-123/21	
95-50-1	1,2-Dichlorobenzene	180 U	1810	893	49	971	53	8	23-114/30	
541-73-1	1,3-Dichlorobenzene	180 U	1810	891	49	968	52	8	21-112/27	
106-46-7	1,4-Dichlorobenzene	180 U	1810	905	50	965	52	6	23-114/27	
121-14-2	2,4-Dinitrotoluene	180 U	1810	1520	84	1560	85	3	42-134/25	

6.9

6

Matrix Spike/Matrix Spike Duplicate Summary

Page 2 of 3

Job Number: T19964

Account: KLETXAU KLEINFELDER

Project: Falcon Refinery Superfund Site/Ingleside, TX

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP8657-MS	A24852.D	1	12/13/07	SC	12/07/07	OP8657	EA1542
OP8657-MSD	A24853.D	1	12/13/07	SC	12/07/07	OP8657	EA1542
T19964-4	A24835.D	1	12/12/07	SC	12/07/07	OP8657	EA1541

The QC reported here applies to the following samples:

Method: SW846 8270C

T19964-4

CAS No.	Compound	T19964-4 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
606-20-2	2,6-Dinitrotoluene	180 U	1810	1530	84	1430	78	7	49-119/21	
91-94-1	3,3'-Dichlorobenzidine	370 U	1810	2350	130	2550	138	8	37-149/27	
53-70-3	Dibenzo(a,h)anthracene	180 U	1810	2200	121	2300	125	4	23-135/28	
132-64-9	Dibenzofuran	180 U	1810	1260	69	1180	64	7	39-126/19	
122-39-4	Diphenylamine	180 U	1810	1680	93	1770	96	5	38-161/25	
84-74-2	Di-n-butyl phthalate	180 U	1810	1510	83	1660	90	9	43-124/20	
117-84-0	Di-n-octyl phthalate	180 U	1810	1940	107	2100	114	8	22-162/29	
84-66-2	Diethyl phthalate	180 U	1810	1410	78	1370	74	3	44-129/21	
131-11-3	Dimethyl phthalate	180 U	1810	1520	84	1350	73	12	48-122/16	
117-81-7	bis(2-Ethylhexyl)phthalate	180 U	1810	2520	139*	2610	141*	4	41-138/24	
206-44-0	Fluoranthene	180 U	1810	1260	69	1330	72	5	29-127/24	
86-73-7	Fluorene	180 U	1810	1290	71	1210	66	6	39-122/22	
118-74-1	Hexachlorobenzene	180 U	1810	1460	80	1590	86	9	46-119/24	
87-68-3	Hexachlorobutadiene	180 U	1810	915	50	885	48	3	15-117/26	
77-47-4	Hexachlorocyclopentadiene	180 U	1810	494	27	453	25	9	12-103/29	
67-72-1	Hexachloroethane	180 U	1810	866	48	883	48	2	18-116/30	
193-39-5	Indeno(1,2,3-cd)pyrene	180 U	1810	2710	149*	2400	130*	12	23-127/32	
78-59-1	Isophorone	180 U	1810	1140	63	998	54	13	36-116/24	
90-12-0	1-Methylnaphthalene	180 U	1810	902	50	898	49	0	38-105/25	
91-57-6	2-Methylnaphthalene	180 U	1810	933	51	898	49	4	37-113/26	
88-74-4	2-Nitroaniline	180 U	1810	1390	77	1350	73	3	38-131/18	
99-09-2	3-Nitroaniline	180 U	1810	1870	103	1820	99	3	30-144/23	
100-01-6	4-Nitroaniline	180 U	1810	2890	159	3070	166	6	54-196/32	
91-20-3	Naphthalene	180 U	1810	935	52	953	52	2	28-113/25	
98-95-3	Nitrobenzene	180 U	1810	900	50	950	51	5	32-113/26	
621-64-7	N-Nitroso-di-n-propylamine	180 U	1810	1130	62	1080	59	5	34-118/24	
86-30-6	N-Nitrosodiphenylamine	180 U	1810	1680	93	1770	96	5	40-157/24	
85-01-8	Phenanthrene	180 U	1810	1460	80	1550	84	6	40-121/19	
129-00-0	Pyrene	180 U	1810	2220	122	2390	130	7	32-144/24	
120-82-1	1,2,4-Trichlorobenzene	180 U	1810	942	52	966	52	3	25-120/26	

CAS No.	Surrogate Recoveries	MS	MSD	T19964-4	Limits
367-12-4	2-Fluorophenol	44%	46%	45%	26-124%
4165-62-2	Phenol-d5	50%	50%	53%	19-106%

6.9

6

Matrix Spike/Matrix Spike Duplicate Summary

Page 3 of 3

Job Number: T19964

Account: KLETXAU KLEINFELDER

Project: Falcon Refinery Superfund Site/Ingleside, TX

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP8657-MS	A24852.D	1	12/13/07	SC	12/07/07	OP8657	EA1542
OP8657-MSD	A24853.D	1	12/13/07	SC	12/07/07	OP8657	EA1542
T19964-4	A24835.D	1	12/12/07	SC	12/07/07	OP8657	EA1541

The QC reported here applies to the following samples:

Method: SW846 8270C

T19964-4

69

6

CAS No.	Surrogate Recoveries	MS	MSD	T19964-4	Limits
118-79-6	2,4,6-Tribromophenol	76%	82%	87%	18-129%
4165-60-0	Nitrobenzene-d5	47%	46%	52%	18-104%
321-60-8	2-Fluorobiphenyl	54%	50%	61%	21-114%
1718-51-0	Terphenyl-d14	118%	128%	99%	24-149%

Matrix Spike/Matrix Spike Duplicate Summary

Page 1 of 3

Job Number: T19964

Account: KLETXAU KLEINFELDER

Project: Falcon Refinery Superfund Site/Ingleside, TX

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP8660-MS	J02379.D	1	12/14/07	GJ	12/08/07	OP8660	EJ110
OP8660-MSD	J02380.D	1	12/14/07	GJ	12/08/07	OP8660	EJ110
T19967-2	J02378.D	1	12/14/07	GJ	12/08/07	OP8660	EJ110
T19967-2	J02412.D	4	12/17/07	GJ	12/08/07	OP8660	EJ112

The QC reported here applies to the following samples:

Method: SW846 8270C

T19964-6, T19964-9, T19964-10

CAS No.	Compound	T19967-2 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
65-85-0	Benzoic Acid	ND		100	ND	0* a	ND	0* a	nc	11-85/27
95-57-8	2-Chlorophenol	ND		100	75.7	76	78.7	79	4	36-100/16
59-50-7	4-Chloro-3-methyl phenol	ND		100	95.5	96	97.3	97	2	41-122/24
120-83-2	2,4-Dichlorophenol	ND		100	87.2	87	86.9	87	0	39-113/25
105-67-9	2,4-Dimethylphenol	ND		100	104	104	106	106	2	35-110/26
51-28-5	2,4-Dinitrophenol	ND		100	56.6	57	75.2	75	28	30-131/44
534-52-1	4,6-Dinitro-o-cresol	ND		100	51.1	51	67.5	68	28* a	29-126/24
95-48-7	2-Methylphenol	22.2		100	111	89	116	94	4	31-105/31
	3&4-Methylphenol	22.8		200	182	80	190	84	4	31-106/25
100-02-7	4-Nitrophenol	ND		100	67.3	67	75.0	75* a	11	21-71/25
87-86-5	Pentachlorophenol	ND		100	139	139	152	152* a	9	52-144/18
108-95-2	Phenol	ND		100	56.0	56	60.2	60	7	17-75/35
95-95-4	2,4,5-Trichlorophenol	ND		100	97.7	98	104	104	6	40-121/22
88-06-2	2,4,6-Trichlorophenol	ND		100	92.1	92	97.4	97	6	42-119/22
83-32-9	Acenaphthene	ND		100	88.1	88	91.9	92	4	35-115/21
208-96-8	Acenaphthylene	ND		100	102	102	106	106	4	43-128/23
120-12-7	Anthracene	ND		100	89.1	89	95.8	96	7	40-126/18
191-24-2	Benzo(g,h,i)perylene	ND		100	90.6	91	134	134	39* a	24-135/36
101-55-3	4-Bromophenyl phenyl ether	ND		100	89.6	90	94.3	94	5	40-125/20
85-68-7	Butyl benzyl phthalate	ND		100	139	139* a	127	127	9	40-128/25
100-51-6	Benzyl Alcohol	ND		100	79.4	79	82.7	83	4	26-110/32
91-58-7	2-Chloronaphthalene	ND		100	86.1	86	90.2	90	5	33-123/27
106-47-8	4-Chloroaniline	ND		100	48.5	49	51.1	51	5	10-119/29
86-74-8	Carbazole	ND		100	118	118	126	126	7	36-155/19
218-01-9	Chrysene	ND		100	88.4	88	98.3	98	11	46-118/19
111-91-1	bis(2-Chloroethoxy)methane	ND		100	81.5	82	83.2	83	2	36-112/30
111-44-4	bis(2-Chloroethyl)ether	ND		100	74.3	74	75.9	76	2	34-110/33
7005-72-3	4-Chlorophenyl phenyl ether	ND		100	94.3	94	98.0	98	4	44-124/21
95-50-1	1,2-Dichlorobenzene	ND		100	76.1	76	78.2	78	3	29-108/29
541-73-1	1,3-Dichlorobenzene	ND		100	75.0	75	77.2	77	3	31-100/32
106-46-7	1,4-Dichlorobenzene	ND		100	75.8	76	78.4	78	3	30-104/36
121-14-2	2,4-Dinitrotoluene	ND		100	97.3	97	104	104	7	41-128/23
606-20-2	2,6-Dinitrotoluene	ND		100	97.1	97	101	101	4	48-124/23
91-94-1	3,3'-Dichlorobenzidine	ND		100	ND	0* a	ND	0* a	nc	33-142/21
53-70-3	Dibenzo(a,h)anthracene	ND		100	87.6	88	130	130	39* a	28-135/37
132-64-9	Dibenzofuran	ND		100	88.5	89	92.3	92	4	39-123/20

Matrix Spike/Matrix Spike Duplicate Summary

Page 2 of 3

Job Number: T19964

Account: KLETXAU KLEINFELDER

Project: Falcon Refinery Superfund Site/Ingleside, TX

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP8660-MS	J02379.D	1	12/14/07	GJ	12/08/07	OP8660	EJ110
OP8660-MSD	J02380.D	1	12/14/07	GJ	12/08/07	OP8660	EJ110
T19967-2	J02378.D	1	12/14/07	GJ	12/08/07	OP8660	EJ110
T19967-2	J02412.D	4	12/17/07	GJ	12/08/07	OP8660	EJ112

The QC reported here applies to the following samples:

Method: SW846 8270C

T19964-6, T19964-9, T19964-10

CAS No.	Compound	T19967-2 ug/l	Spike Q	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD	
122-39-4	Diphenylamine	ND		100	95.5	96	101	101	6	35-163/27
84-74-2	Di-n-butyl phthalate	ND		100	103	103	107	107	4	36-131/16
117-84-0	Di-n-octyl phthalate	ND		100	175	175* a	117	117	40* a	35-140/25
84-66-2	Diethyl phthalate	ND		100	97.9	98	101	101	3	46-129/20
131-11-3	Dimethyl phthalate	ND		100	90.8	91	94.8	95	4	51-121/19
117-81-7	bis(2-Ethylhexyl)phthalate	ND		100	147	147* a	138	138* a	6	46-135/19
206-44-0	Fluoranthene	ND		100	86.9	87	93.3	93	7	42-124/24
86-73-7	Fluorene	3.4	J	100	96.5	93	101	98	5	35-123/22
118-74-1	Hexachlorobenzene	ND		100	89.1	89	93.5	94	5	42-128/21
87-68-3	Hexachlorobutadiene	ND		100	82.0	82	83.0	83	1	26-102/28
77-47-4	Hexachlorocyclopentadiene	ND		100	27.1	27	42.6	43	44* a	20-107/34
67-72-1	Hexachloroethane	ND		100	114	114* a	118	118* a	3	27-107/30
193-39-5	Indeno(1,2,3-cd)pyrene	ND		100	88.9	89	129	129	37* a	28-133/30
78-59-1	Isophorone	ND		100	87.2	87	90.2	90	3	42-112/28
90-12-0	1-Methylnaphthalene	49.9		100	143	93	146	96	2	35-107/25
91-57-6	2-Methylnaphthalene	102		100	210	108	214	112	2	32-118/29
88-74-4	2-Nitroaniline	ND		100	87.2	87	95.7	96	9	42-122/22
99-09-2	3-Nitroaniline	ND		100	62.4	62	66.4	66	6	28-145/23
100-01-6	4-Nitroaniline	ND		100	118	118	121	121	3	32-209/24
91-20-3	Naphthalene	323 c		100	496	173* b	497	174* b	0	36-105/24
98-95-3	Nitrobenzene	ND		100	80.9	81	83.7	84	3	37-115/26
621-64-7	N-Nitroso-di-n-propylamine	ND		100	84.8	85	87.8	88	3	34-122/27
86-30-6	N-Nitrosodiphenylamine	ND		100	95.5	96	101	101	6	33-165/27
85-01-8	Phenanthrene	5.3		100	93.6	88	98.7	93	5	49-119/19
129-00-0	Pyrene	1.9	J	100	127	125	116	114	9	39-128/25
120-82-1	1,2,4-Trichlorobenzene	ND		100	84.3	84	86.2	86	2	30-112/23

CAS No.	Surrogate Recoveries	MS	MSD	T19967-2	T19967-2	Limits
367-12-4	2-Fluorophenol	58%	59%	32%	31%	10-66%
4165-62-2	Phenol-d5	48%	49%	24%	23%	10-53%
118-79-6	2,4,6-Tribromophenol	88%	95%	76%	71%	32-128%
4165-60-0	Nitrobenzene-d5	74%	76%	57%	55%	29-115%
321-60-8	2-Fluorobiphenyl	73%	76%	59%	63%	34-113%
1718-51-0	Terphenyl-d14	133%	121%	126%	110%	12-145%

6.9

6

Matrix Spike/Matrix Spike Duplicate Summary

Page 3 of 3

Job Number: T19964

Account: KLETXAU KLEINFELDER

Project: Falcon Refinery Superfund Site/Ingleside, TX

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP8660-MS	J02379.D	1	12/14/07	GJ	12/08/07	OP8660	EJ110
OP8660-MSD	J02380.D	1	12/14/07	GJ	12/08/07	OP8660	EJ110
T19967-2	J02378.D	1	12/14/07	GJ	12/08/07	OP8660	EJ110
T19967-2	J02412.D	4	12/17/07	GJ	12/08/07	OP8660	EJ112

The QC reported here applies to the following samples:

Method: SW846 8270C

T19964-6, T19964-9, T19964-10

69

6

- (a) Outside control limits due to matrix interference.
- (b) Outside control limits due to high level in sample relative to spike amount.
- (c) Result is from Run #2.



IT'S ALL IN THE CHEMISTRY

Metals Analysis

QC Data Summaries

7

Includes the following where applicable:

- Method Blank Summaries
- Matrix Spike and Duplicate Summaries
- Blank Spike and Lab Control Sample Summaries
- Serial Dilution Summaries

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: T19964
Account: KLETXAU - KLEINFELDER
Project: Falcon Refinery Superfund Site/Ingleside, TX

QC Batch ID: MP7001
Matrix Type: SOLID

Methods: SW846 6010B
Units: mg/kg

Prep Date:

12/10/07

Metal	RL	IDL	MB raw	final
Aluminum	10	2.6	0.74	<10
Antimony	0.50	.09	0.054	<0.50
Arsenic	0.50	.07	-0.072	<0.50
Barium	10	.005	0.012	<10
Beryllium	0.25	.003	-0.0040	<0.25
Boron	5.0	.07		
Cadmium	0.25	.025	0.0	<0.25
Calcium	250	.4	1.4	<250
Chromium	0.50	.045	-0.16	<0.50
Cobalt	2.5	.05	0.0085	<2.5
Copper	1.3	.071	0.15	<1.3
Iron	5.0	.8	-0.41	<5.0
Lead	0.50	.035	0.056	<0.50
Magnesium	250	.4	0.14	<250
Manganese	0.75	.01	0.073	<0.75
Molybdenum	0.50	.023		
Nickel	2.0	.05	-0.13	<2.0
Potassium	250	4	-2.2	<250
Selenium	0.50	.085	-0.055	<0.50
Silver	0.50	.025	-0.0015	<0.50
Sodium	250	8.1	-0.21	<250
Strontium	1.0	.025		
Thallium	1.0	.075	0.016	<1.0
Tin	1.0	.075		
Titanium	1.0	.025		
Vanadium	2.5	.02	0.0020	<2.5
Zinc	1.0	.04	0.45	<1.0

Associated samples MP7001: T19964-1, T19964-2, T19964-3, T19964-4, T19964-5, T19964-7, T19964-8

Results < IDL are shown as zero for calculation purposes

(*) Outside of QC limits
(anr) Analyte not requested

7.1.1
7

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: T19964
 Account: KLETXAU - KLEINFELDER
 Project: Falcon Refinery Superfund Site/Ingleside, TX

QC Batch ID: MP7001
 Matrix Type: SOLID

Methods: SW846 6010B
 Units: mg/kg

Prep Date:

12/10/07

12/10/07

Metal	T19964-4 Original DUP		RPD	QC Limits	T19964-4 Original MS		Spikelot MPTW3	% Rec	QC Limits
Aluminum	4830	5460	12.2	0-20	4830	11500	5230	127.5N(b)	75-125
Antimony	0.0	0.0	NC	0-20	0.0	22.7	41.8	54.3N(b)	75-125
Arsenic	1.3	1.4	7.4	0-20	1.3	42.1	41.8	97.5	75-125
Barium	69.1	75.5	8.9	0-20	69.1	116	41.8	112.1	75-125
Beryllium	0.16	0.19	17.1	0-20	0.16	40.7	41.8	96.9	75-125
Boron									
Cadmium	1.1	1.0	9.5	0-20	1.1	39.6	41.8	92.0	75-125
Calcium	11700	13100	11.3	0-20	11700	18000	5230	120.5	75-125
Chromium	3.7	4.1	10.3	0-20	3.7	44.9	41.8	98.5	75-125
Cobalt	1.2	1.3	8.0	0-20	1.2	41.4	41.8	96.1	75-125
Copper	4.8	4.1	15.7	0-20	4.8	48.9	41.8	105.4	75-125
Iron	3830	3710	4.0	0-20	3830	9010	5230	98.5	75-125
Lead	9.2	8.4	9.1	0-20	9.2	48.7	41.8	94.4	75-125
Magnesium	1020	1120	9.3	0-20	1020	5610	5230	87.8	75-125
Manganese	65.6	71.2	8.2	0-20	65.6	113	41.8	113.3	75-125
Molybdenum									
Nickel	2.0	2.1	4.9	0-20	2.0	40.6	41.8	92.3	75-125
Potassium	1040	1170	11.8	0-20	1040	6370	5230	101.9	75-125
Selenium	0.0	0.0	NC	0-20	0.0	41.3	41.8	98.7	75-125
Silver	0.0	0.0	NC	0-20	0.0	42.4	41.8	101.3	75-125
Sodium	108	45.7	81.1 (a)	0-20	108	4900	5230	91.6	75-125
Strontium									
Thallium	0.0	0.0	NC	0-20	0.0	39.9	41.8	95.4	75-125
Tin									
Titanium									
Vanadium	7.0	7.8	10.8	0-20	7.0	48.7	41.8	99.7	75-125
Zinc	85.3	86.7	1.6	0-20	85.3	142	41.8	135.5N(b)	75-125

Associated samples MP7001: T19964-1, T19964-2, T19964-3, T19964-4, T19964-5, T19964-7, T19964-8

Results < IDL are shown as zero for calculation purposes

(*) Outside of QC limits

(N) Matrix Spike Rec. outside of QC limits

(anr) Analyte not requested

(a) RPD acceptable due to low duplicate and sample concentrations.

(b) Spike recovery indicates possible matrix interference.

7.12
7

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: T19964
 Account: KLETXAU - KLEINFELDER
 Project: Falcon Refinery Superfund Site/Ingleside, TX

QC Batch ID: MP7001
 Matrix Type: SOLID

Methods: SW846 6010B
 Units: mg/kg

Prep Date:

12/10/07

Metal	T19964-4 Original	MSD	Spikelot MPTW3	% Rec	MSD RPD	QC Limit
Aluminum	4830	9810	4710	105.8	15.9	
Antimony	0.0	19.7	37.7	52.3N(a)	14.2	
Arsenic	1.3	36.8	37.7	94.3	13.4	
Barium	69.1	112	37.7	113.9	3.5	
Beryllium	0.16	35.4	37.7	93.6	13.9	
Boron						
Cadmium	1.1	34.6	37.7	88.9	13.5	
Calcium	11700	16600	4710	104.1	8.1	
Chromium	3.7	39.5	37.7	95.1	12.8	
Cobalt	1.2	36.0	37.7	92.4	14.0	
Copper	4.8	42.2	37.7	99.3	14.7	
Iron	3830	8440	4710	97.3	6.5	
Lead	9.2	44.2	37.7	92.9	9.7	
Magnesium	1020	4840	4710	81.1	14.7	
Manganese	65.6	106	37.7	107.3	6.4	
Molybdenum						
Nickel	2.0	35.4	37.7	88.7	13.7	
Potassium	1040	5500	4710	94.7	14.7	
Selenium	0.0	35.9	37.7	95.3	14.0	
Silver	0.0	36.9	37.7	98.0	13.9	
Sodium	108	4280	4710	88.6	13.5	
Strontium						
Thallium	0.0	34.6	37.7	91.9	14.2	
Tin						
Titanium						
Vanadium	7.0	42.9	37.7	95.3	12.7	
Zinc	85.3	117	37.7	84.2	19.3	

Associated samples MP7001: T19964-1, T19964-2, T19964-3, T19964-4, T19964-5, T19964-7, T19964-8

Results < IDL are shown as zero for calculation purposes

(*) Outside of QC limits

(N) Matrix Spike Rec. outside of QC limits

(anr) Analyte not requested

(a) Spike recovery indicates possible matrix interference.

7.12
7

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: T19964
 Account: KLETXAU - KLEINFELDER
 Project: Falcon Refinery Superfund Site/Ingleside, TX

QC Batch ID: MP7001
 Matrix Type: SOLID

Methods: SW846 6010B
 Units: mg/kg

Prep Date:

12/10/07

Metal	LCS Result	Spikelot MPLCD049	% Rec	QC Limits
Aluminum	10500	7730	135.8	58-142
Antimony	51.5	60.6	85.0	17-223
Arsenic	244	257	94.9	80-120
Barium	472	472	100.0	82-118
Beryllium	83.5	88.4	94.5	82-118
Boron				
Cadmium	104	117	88.9	82-119
Calcium	3690	3640	101.4	79-121
Chromium	80.4	72.8	110.4	79-121
Cobalt	79.0	82.5	95.8	82-118
Copper	98.1	100	98.1	83-118
Iron	15000	14500	103.4	51-149
Lead	158	166	95.2	81-119
Magnesium	3040	3000	101.3	77-123
Manganese	383	374	102.4	80-120
Molybdenum				
Nickel	94.0	103	91.3	82-118
Potassium	2770	2410	114.9	71-129
Selenium	176	173	101.7	76-124
Silver	126	123	102.4	61-139
Sodium	497	574	86.6	56-144
Strontium				
Thallium	186	194	95.9	76-124
Tin				
Titanium				
Vanadium	153	138	110.9	75-125
Zinc	199	201	99.0	79-120

Associated samples MP7001: T19964-1, T19964-2, T19964-3, T19964-4, T19964-5, T19964-7, T19964-8

Results < IDL are shown as zero for calculation purposes

(*) Outside of QC limits
 (anr) Analyte not requested

7.1.3
7

SERIAL DILUTION RESULTS SUMMARY

Login Number: T19964
 Account: KLETXAU - KLEINFELDER
 Project: Falcon Refinery Superfund Site/Ingleside, TX

QC Batch ID: MP7001
 Matrix Type: SOLID

Methods: SW846 6010B
 Units: ug/l

Prep Date:

12/10/07

Metal	T19964-4 Original	SDL 1:5	RPD	QC Limits
Aluminum	45100	44400	1.6	0-10
Antimony	0.00	0.00	NC	0-10
Arsenic	12.2	10.9	10.3 (a)	0-10
Barium	645	651	0.9	0-10
Beryllium	1.53	1.09	28.8 (a)	0-10
Boron				
Cadmium	10.7	11.4	6.7	0-10
Calcium	109000	110000	1.5	0-10
Chromium	35.0	23.9	31.6 (a)	0-10
Cobalt	11.7	13.4	15.3 (a)	0-10
Copper	44.5	44.3	0.4	0-10
Iron	35700	36700	1.9	0-10
Lead	85.9	93.2	8.5	0-10
Magnesium	9520	9880	3.7	0-10
Manganese	612	637	4.2	0-10
Molybdenum				
Nickel	18.2	5.93	67.5 (a)	0-10
Potassium	9680	7960	17.8*(b)	0-10
Selenium	0.00	0.00	NC	0-10
Silver	0.00	0.00	NC	0-10
Sodium	1010	0.00	100.0(a)	0-10
Strontium				
Thallium	0.00	0.00	NC	0-10
Tin				
Titanium				
Vanadium	65.7	67.8	3.1	0-10
Zinc	796	837	5.2	0-10

Associated samples MP7001: T19964-1, T19964-2, T19964-3, T19964-4, T19964-5, T19964-7, T19964-8

Results < IDL are shown as zero for calculation purposes

(*) Outside of QC limits

(anr) Analyte not requested

(a) Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

(b) Serial dilution indicates possible matrix interference.

7.1.4

7

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: T19964
Account: KLETXAU - KLEINFELDER
Project: Falcon Refinery Superfund Site/Ingleside, TX

QC Batch ID: MP7020
Matrix Type: SOLID

Methods: SW846 7471A
Units: mg/kg

Prep Date:

12/12/07

Metal	RL	IDL	MB raw	final
Mercury	0.017	.0041	0.00042	<0.017

Associated samples MP7020: T19964-1, T19964-2, T19964-3, T19964-4, T19964-5, T19964-7, T19964-8

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

7.2.1
7

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: T19964
 Account: KLETXAU - KLEINFELDER
 Project: Falcon Refinery Superfund Site/Ingleside, TX

QC Batch ID: MP7020
 Matrix Type: SOLID

Methods: SW846 7471A
 Units: mg/kg

Prep Date:

12/12/07

12/12/07

Metal	T19964-4 Original DUP	RPD	QC Limits	T19964-4 Original MS	Spikelot HGTXWS1	% Rec	QC Limits
Mercury	0.013	0.014	7.4	0-20	0.013	0.27	0.261 98.3 75-125

Associated samples MP7020: T19964-1, T19964-2, T19964-3, T19964-4, T19964-5, T19964-7, T19964-8

Results < IDL are shown as zero for calculation purposes

(*) Outside of QC limits

(N) Matrix Spike Rec. outside of QC limits

(anr) Analyte not requested

7.2.2

7

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: T19964
Account: KLETXAU - KLEINFELDER
Project: Falcon Refinery Superfund Site/Ingleside, TX

QC Batch ID: MP7020
Matrix Type: SOLID

Methods: SW846 7471A
Units: mg/kg

Prep Date:

12/12/07

Metal	T19964-4 Original	Spikelot HGTXWS1	MSD % Rec	QC RPD	QC Limit
Mercury	0.013	0.25	0.245	96.7	7.7

Associated samples MP7020: T19964-1, T19964-2, T19964-3, T19964-4, T19964-5, T19964-7, T19964-8

Results < IDL are shown as zero for calculation purposes

(*) Outside of QC limits

(N) Matrix Spike Rec. outside of QC limits

(anr) Analyte not requested

7.2.2

7

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: T19964
Account: KLETXAU - KLEINFELDER
Project: Falcon Refinery Superfund Site/Ingleside, TX

QC Batch ID: MP7020
Matrix Type: SOLID

Methods: SW846 7471A
Units: mg/kg

Prep Date:

12/12/07

Metal	LCS Result	Spikelot HGLCD049	QC % Rec	QC Limits
Mercury	4.0	4.18	95.7	68-132

Associated samples MP7020: T19964-1, T19964-2, T19964-3, T19964-4, T19964-5, T19964-7, T19964-8

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

7.2.3
7

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: T19964
Account: KLETXAU - KLEINFELDER
Project: Falcon Refinery Superfund Site/Ingleside, TX

QC Batch ID: MP7028
Matrix Type: AQUEOUS

Methods: SW846 6010B
Units: ug/l

Prep Date:

12/13/07

Metal	RL	IDL	MB raw	final
Aluminum	200	51	29.9	<200
Antimony	5.0	1.8	-0.80	<5.0
Arsenic	5.0	1.4	2.5	<5.0
Barium	200	.1	0.060	<200
Beryllium	5.0	.06	-0.34	<5.0
Boron	100	1.4		
Cadmium	4.0	.5	0.070	<4.0
Calcium	5000	8	-8.1	<5000
Chromium	10	.9	-0.68	<10
Cobalt	50	.99	0.26	<50
Copper	25	1.4	-0.58	<25
Iron	100	16	-40	<100
Lead	3.0	.7	-0.45	<3.0
Magnesium	5000	8	2.0	<5000
Manganese	15	.2	0.040	<15
Molybdenum	10	.45		
Nickel	40	1	-0.76	<40
Potassium	5000	80	-200	<5000
Selenium	5.0	1.7	-2.3	<5.0
Silver	10	.5	0.31	<10
Sodium	5000	160	10.2	<5000
Strontium	20	.5		
Thallium	10	1.5	-0.46	<10
Tin	20	1.5		
Titanium	20	.5		
Vanadium	50	.4	0.27	<50
Zinc	20	.8	1.4	<20

Associated samples MP7028: T19964-6, T19964-9, T19964-10

Results < IDL are shown as zero for calculation purposes

(*) Outside of QC limits
(anr) Analyte not requested

7.3.1
7

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: T19964
 Account: KLETXAU - KLEINFELDER
 Project: Falcon Refinery Superfund Site/Ingleside, TX

QC Batch ID: MP7028
 Matrix Type: AQUEOUS

Methods: SW846 6010B
 Units: ug/l

Prep Date: 12/13/07 12/13/07

Metal	T19964-6 Original	DUP	RPD	QC Limits	T19964-6 Original	MS	Spikelot MPTW3	% Rec	QC Limits
Aluminum	0.00	0.00	NC	0-20	0.00	47600	50000	95.2	75-125
Antimony	5.3	2.2	82.7 (a)	0-20	5.3	447	400	110.4	75-125
Arsenic	7.5	6.6	12.8	0-20	7.5	443	400	108.9	75-125
Barium	137	136	0.7	0-20	137	545	400	102.0	75-125
Beryllium	0.0	0.0	NC	0-20	0.0	411	400	102.8	75-125
Boron									
Cadmium	0.0	0.0	NC	0-20	0.0	388	400	97.0	75-125
Calcium	87900	87500	0.5	0-20	87900	125000	50000	74.2N(b)	75-125
Chromium	0.0	0.0	NC	0-20	0.0	391	400	97.8	75-125
Cobalt	0.0	0.0	NC	0-20	0.0	389	400	97.3	75-125
Copper	0.0	0.0	NC	0-20	0.0	435	400	108.8	75-125
Iron	372	381	2.4	0-20	372	42600	50000	84.5	75-125
Lead	2.0	1.4	35.3 (a)	0-20	2.0	394	400	98.0	75-125
Magnesium	216000	215000	0.5	0-20	216000	241000	50000	50.0 (c)	75-125
Manganese	1010	1020	1.0	0-20	1010	1320	400	77.5	75-125
Molybdenum									
Nickel	0.0	0.0	NC	0-20	0.0	376	400	94.0	75-125
Potassium	55300	54600	1.3	0-20	55300	111000(d)	50000	111.4	75-125
Selenium	0.0	0.0	NC	0-20	0.0	461	400	115.3	75-125
Silver	0.0	0.0	NC	0-20	0.0	440	400	110.0	75-125
Sodium	1510000	1970000	2.0	0-20	1510000	1970000	50000	-80.0(c)	75-125
Strontium									
Thallium	4.1	3.6	13.0	0-20	4.1	407	400	100.7	75-125
Tin									
Titanium									
Vanadium	0.88	0.74	17.3	0-20	0.88	392	400	97.8	75-125
Zinc	12.3	16.9	31.5 (a)	0-20	12.3	421	400	102.2	75-125

Associated samples MP7028: T19964-6, T19964-9, T19964-10

Results < IDL are shown as zero for calculation purposes

(*) Outside of QC limits

(N) Matrix Spike Rec. outside of QC limits

(anr) Analyte not requested

(a) RPD acceptable due to low duplicate and sample concentrations.

(b) Spike recovery indicates possible matrix interference.

(c) Spike amount low relative to the sample amount. Refer to lab control or spike blank for recovery information.

(d) Spike recovery is out of range due to high concentration of K on sample.

7.3.2
7

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: T19964
 Account: KLETXAU - KLEINFELDER
 Project: Falcon Refinery Superfund Site/Ingleside, TX

QC Batch ID: MP7028
 Matrix Type: AQUEOUS

Methods: SW846 6010B
 Units: ug/l

Prep Date:

12/13/07

Metal	T19964-6 Original	MSD	Spikelot MPTW3	% Rec	MSD RPD	QC Limit
Aluminum	0.00	51800	50000	103.6	8.5	
Antimony	5.3	487	400	120.4	8.6	
Arsenic	7.5	485	400	119.4	9.1	
Barium	137	593	400	114.0	8.4	
Beryllium	0.0	450	400	112.5	9.1	
Boron						
Cadmium	0.0	422	400	105.5	8.4	
Calcium	87900	137000	50000	98.2	9.2	
Chromium	0.0	427	400	106.8	8.8	
Cobalt	0.0	424	400	106.0	8.6	
Copper	0.0	474	400	118.5	8.6	
Iron	372	46500	50000	92.3	8.8	
Lead	2.0	427	400	106.3	8.0	
Magnesium	216000	264000	50000	96.0	9.1	
Manganese	1010	1440	400	107.5	8.7	
Molybdenum						
Nickel	0.0	409	400	102.3	8.4	
Potassium	55300	120000(a)	50000	129.4N(b)	7.8	
Selenium	0.0	503	400	125.8N(b)	8.7	
Silver	0.0	490	400	122.5	10.8	
Sodium	1510000	2040000	50000	60.0 (c)	3.5	
Strontium						
Thallium	4.1	444	400	110.0	8.7	
Tin						
Titanium						
Vanadium	0.88	428	400	106.8	8.8	
Zinc	12.3	454	400	110.4	7.5	

Associated samples MP7028: T19964-6, T19964-9, T19964-10

Results < IDL are shown as zero for calculation purposes

(*) Outside of QC limits

(N) Matrix Spike Rec. outside of QC limits

(anr) Analyte not requested

(a) Spike recovery is out of range due to high concentration of K on sample.

(b) Spike recovery indicates possible matrix interference.

(c) Spike amount low relative to the sample amount. Refer to lab control or spike blank for recovery information.

7.3.2
7

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: T19964
 Account: KLETXAU - KLEINFELDER
 Project: Falcon Refinery Superfund Site/Ingleside, TX

QC Batch ID: MP7028
 Matrix Type: AQUEOUS

Methods: SW846 6010B
 Units: ug/l

Prep Date: 12/13/07

Metal	BSP Result	Spikelot MPTW3	% Rec	QC Limits
Aluminum	50900	50000	101.8	80-120
Antimony	413	400	103.3	80-120
Arsenic	408	400	102.0	80-120
Barium	415	400	103.8	80-120
Beryllium	409	400	102.3	80-120
Boron				
Cadmium	394	400	98.5	80-120
Calcium	50000	50000	100.0	80-120
Chromium	402	400	100.5	80-120
Cobalt	395	400	98.8	80-120
Copper	409	400	102.3	80-120
Iron	49400	50000	98.8	80-120
Lead	394	400	98.5	80-120
Magnesium	48900	50000	97.8	80-120
Manganese	401	400	100.3	80-120
Molybdenum				
Nickel	387	400	96.8	80-120
Potassium	52000	50000	104.0	80-120
Selenium	417	400	104.3	80-120
Silver	409	400	102.3	80-120
Sodium	50000	50000	100.0	80-120
Strontium				
Thallium	406	400	101.5	80-120
Tin				
Titanium				
Vanadium	397	400	99.3	80-120
Zinc	430	400	107.5	80-120

Associated samples MP7028: T19964-6, T19964-9, T19964-10

Results < IDL are shown as zero for calculation purposes

(*) Outside of QC limits
 (anr) Analyte not requested

7.3.3
7

SERIAL DILUTION RESULTS SUMMARY

Login Number: T19964
 Account: KLETXAU - KLEINFELDER
 Project: Falcon Refinery Superfund Site/Ingleside, TX

QC Batch ID: MP7028
 Matrix Type: AQUEOUS

Methods: SW846 6010B
 Units: ug/l

Prep Date:

12/13/07

Metal	T19964-6 Original	SDL 1:5	RPD	QC Limits
Aluminum	0.00	0.00	NC	0-10
Antimony	5.30	0.00	100.0 (a)	0-10
Arsenic	7.51	13.1	74.0 (a)	0-10
Barium	137	139	1.6	0-10
Beryllium	0.00	0.00	NC	0-10
Boron				
Cadmium	0.00	0.00	NC	0-10
Calcium	87900	91300	3.9	0-10
Chromium	0.00	0.00	NC	0-10
Cobalt	0.00	0.00	NC	0-10
Copper	0.00	0.00	NC	0-10
Iron	372	237	36.2 (a)	0-10
Lead	1.97	0.00	100.0 (a)	0-10
Magnesium	216000	219000	1.4	0-10
Manganese	1010	1060	4.9	0-10
Molybdenum				
Nickel	0.00	0.00	NC	0-10
Potassium	55300	42900	22.4* (b)	0-10
Selenium	0.00	0.00	NC	0-10
Silver	0.00	0.00	NC	0-10
Sodium	1510000	2070000	3.2	0-10
Strontium				
Thallium	4.13	10.7	159.1 (a)	0-10
Tin				
Titanium				
Vanadium	0.880	2.60	195.5 (a)	0-10
Zinc	12.3	15.4	25.3 (a)	0-10

Associated samples MP7028: T19964-6, T19964-9, T19964-10

Results < IDL are shown as zero for calculation purposes

(*) Outside of QC limits

(anr) Analyte not requested

(a) Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

(b) Serial dilution indicates possible matrix interference.

7.3.4

7

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: T19964
Account: KLETXAU - KLEINFELDER
Project: Falcon Refinery Superfund Site/Ingleside, TX

QC Batch ID: MP7036
Matrix Type: AQUEOUS

Methods: SW846 7470A
Units: ug/l

Prep Date:

12/14/07

Metal	RL	IDL	MB raw	final
Mercury	0.20	.049	-0.040	<0.20

Associated samples MP7036: T19964-6, T19964-9, T19964-10

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

7.4.1
7

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: T19964
Account: KLETXAU - KLEINFELDER
Project: Falcon Refinery Superfund Site/Ingleside, TX

QC Batch ID: MP7036
Matrix Type: AQUEOUS

Methods: SW846 7470A
Units: ug/l

Prep Date: 12/14/07 Analytical Date: 12/14/07

Metal	T20018-10 Original DUP	RPD	QC Limits	T20018-10 Original MS	Spikelot HGTXAQ40	% Rec	QC Limits
Mercury	0.28	0.31	10.2 (a) 0-6.6	0.28	3.7	3	114.0 78-118

Associated samples MP7036: T19964-6, T19964-9, T19964-10

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested
(a) RPD acceptable due to low duplicate and sample concentrations.

7.4.2

7

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: T19964
Account: KLETXAU - KLEINFELDER
Project: Falcon Refinery Superfund Site/Ingleside, TX

QC Batch ID: MP7036
Matrix Type: AQUEOUS

Methods: SW846 7470A
Units: ug/l

Prep Date:

12/14/07

Metal	T20018-10 Original MSD	Spikelot HGTXAQ40 % Rec	MSD RPD	QC Limit
Mercury	0.28	3.7	3	114.0 0.0

Associated samples MP7036: T19964-6, T19964-9, T19964-10

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

7.4.2

7

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: T19964

Account: KLETXAU - KLEINFELDER

Project: Falcon Refinery Superfund Site/Ingleside, TX

QC Batch ID: MP7036
Matrix Type: AQUEOUS

Methods: SW846 7470A
Units: ug/l

Prep Date:

12/14/07

Metal	BSP Result	Spikelot HGTXAQ40	% Rec	QC Limits
Mercury	3.2	3	106.7	80-120

Associated samples MP7036: T19964-6, T19964-9, T19964-10

Results < IDL are shown as zero for calculation purposes

(*) Outside of QC limits

(anr) Analyte not requested

7.4.3
7



General Chemistry

QC Data Summaries

8

Includes the following where applicable:

- Method Blank and Blank Spike Summaries
- Duplicate Summaries
- Matrix Spike Summaries

METHOD BLANK AND SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: T19964
Account: KLETXAU - KLEINFELDER
Project: Falcon Refinery Superfund Site/Ingleside, TX

Analyte	Batch ID	RL	MB Result	Units	Spike Amount	BSP Result	BSP %Recov	QC Limits
Chromium, Hexavalent	GN12776	0.010	<0.010	mg/l	0.2	0.20	101.0	88-113%

Associated Samples:
Batch GN12776: T19964-10, T19964-6, T19964-9
(*) Outside of QC limits

8.1

8

DUPLICATE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: T19964
Account: KLETXAU - KLEINFELDER
Project: Falcon Refinery Superfund Site/Ingleside, TX

Analyte	Batch ID	QC Sample	Units	Original Result	DUP Result	RPD	QC Limits
Chromium, Hexavalent	GN12776	T19964-10	mg/l	0.0040 U	<0.010	0.0	0-11%
Solids, Percent	GN12808	T19964-4	%	89.1	89.3	0.2	0-20%

Associated Samples:

Batch GN12776: T19964-10, T19964-6, T19964-9

Batch GN12808: T19964-1, T19964-2, T19964-3, T19964-4, T19964-5, T19964-7, T19964-8

(*) Outside of QC limits

8.2

8

MATRIX SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: T19964
Account: KLETXAU - KLEINFELDER
Project: Falcon Refinery Superfund Site/Ingleside, TX

Analyte	Batch ID	QC Sample	Units	Original Result	Spike Amount	MS Result	%Rec	QC Limits
Chromium, Hexavalent	GN12776	T19964-10	mg/l	0.0040 U	0.1	0.090	90.0	70-122%

Associated Samples:

Batch GN12776: T19964-10, T19964-6, T19964-9

(*) Outside of QC limits

(N) Matrix Spike Rec. outside of QC limits

83
8



IT'S ALL IN THE CHEMISTRY

Misc. Forms

Custody Documents and Other Forms

(Accutest Laboratories Southeast, Inc.)

6

Includes the following where applicable:

- Chain of Custody

SUB COC

10165 Harwin, Suite 150 - Houston, TX 77036 - 713-271-4700 fax: 713-271-4770

Page 1 of

FED-EX Tracking #	Bottle Order Control #
Accutest Quote #	Accutest Job #

119964

9.1
6

T19964: Chain of Custody

Page 1 of 2

Accutest Laboratories Southeast, Inc.

ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION

ACCUTEST'S JOB NUMBER: T19964 CLIENT: ALGC PROJECT: T19964
DATE/TIME RECEIVED: 12-11-07 9:30 # OF COOLERS RECEIVED: 4 COOLER TEMPS: 16 18 20 22
METHOD OF DELIVERY: FEDEX UPS ACCUTEST COURIER GREYHOUND DELIVERY OTHER
AIRBILL NUMBERS: 7988 2701 7285

COOLER INFORMATION

- CUSTODY SEAL NOT PRESENT OR NOT INTACT
- CHAIN OF CUSTODY NOT RECEIVED (COC)
- ANALYSIS REQUESTED IS UNCLEAR OR MISSING
- SAMPLE DATES OR TIMES UNCLEAR OR MISSING
- TEMPERATURE CRITERIA NOT MET

SAMPLE INFORMATION

- SAMPLE LABELS NOT PRESENT ON ALL BOTTLES
- CORRECT NUMBER OF CONTAINERS USED
- SAMPLE RECEIVED IMPROPERLY PRESERVED
- INSUFFICIENT VOLUME FOR ANALYSIS
- TIMES ON COC DOES NOT MATCH LABEL(S)
- ID'S ON COC DOES NOT MATCH LABEL(S)
- VOC VIALS HAVE HEADSPACE (MACRO BUBBLES)
- BOTTLES RECEIVED BUT ANALYSIS NOT REQUESTED
- NO BOTTLES RECEIVED FOR ANALYSIS REQUESTED
- UNCLEAR FILTERING INSTRUCTIONS
- UNCLEAR COMPOSITING INSTRUCTIONS
- SAMPLE CONTAINER(S) RECEIVED BROKEN
- % SOLIDS JAR NOT RECEIVED
- 5035 FIELD KIT NOT FROZEN WITHIN 48 HOUR'S
- RESIDUAL CHLORINE PRESENT

(APPLICABLE TO EPA 600 SERIES OR NORTH CAROLINA ORGANICS)

TRIP BLANK INFORMATION

- TRIP BLANK PROVIDED
- TRIP BLANK NOT PROVIDED
- TRIP BLANK NOT ON COC
- TRIP BLANK INTACT
- TRIP BLANK NOT INTACT
- RECEIVED WATER TRIP BLANK
- RECEIVED SOIL TRIP BLANK

MISC. INFORMATION

- NUMBER OF ENCORES ? 0
NUMBER OF 5035 FIELD KITS ? 0
NUMBER OF LAB FILTERED METALS ? 0

SUMMARY OF COMMENTS:

TECHNICIAN SIGNATURE/DATE JMC 12-11-07 TECHNICIAN SIGNATURE/DATE FM 12-11-07 ASBD 10/03/06

16

6

T19964: Chain of Custody
Page 2 of 2



General Chemistry

QC Data Summaries

(Accutest Laboratories Southeast, Inc.)

Includes the following where applicable:

- Method Blank and Blank Spike Summaries
- Duplicate Summaries
- Matrix Spike Summaries

METHOD BLANK AND SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: T19964
Account: ALGC - Accutest Laboratories Gulf Coast, Inc.
Project: KLETXAU: Falcon Refinery Superfund Site/Ingleside, TX

Analyte	Batch ID	RL	MB Result	Units	Spike Amount	BSP Result	BSP %Recov	QC Limits
Chromium, Hexavalent	GN28761	2.0	<2.0	mg/kg	10.0	10.3	103.0	80-120%

Associated Samples:

Batch GN28761: T19964-1, T19964-2, T19964-3, T19964-4, T19964-5, T19964-7, T19964-8

(*) Outside of QC limits

10.1

10

DUPLICATE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: T19964
Account: ALGC - Accutest Laboratories Gulf Coast, Inc.
Project: KLETXAU: Falcon Refinery Superfund Site/Ingleside, TX

Analyte	Batch ID	QC Sample	Units	Original Result	DUP Result	RPD	QC Limits
Chromium, Hexavalent	GN28761	T19944-8	mg/kg	1.2 U	<2.0	0.0	0-20%

Associated Samples:

Batch GN28761: T19964-1, T19964-2, T19964-3, T19964-4, T19964-5, T19964-7, T19964-8

(*) Outside of QC limits

10.2
10

MATRIX SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: T19964
Account: ALGC - Accutest Laboratories Gulf Coast, Inc.
Project: KLETXAU: Falcon Refinery Superfund Site/Ingleside, TX

Analyte	Batch ID	QC Sample	Units	Original Result	Spike Amount	MS Result	%Rec	QC Limits
Chromium, Hexavalent	GN28761	T19944-8	mg/kg	1.2 U	12.1	9.5	76.5*(a)	80-120%

Associated Samples:

Batch GN28761: T19964-1, T19964-2, T19964-3, T19964-4, T19964-5, T19964-7, T19964-8

(*) Outside of QC limits

(N) Matrix Spike Rec. outside of QC limits

(a) Spike recovery indicates possible matrix interference and/or sample nonhomogeneity.